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Feeding Stuffs Report

1916

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CHIEF CHEMIST



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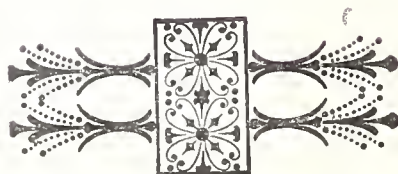


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LETTER OF TRANSMITTAL

DEPARTMENT OF AGRICULTURE BUREAU OF CHEMISTRY

Harrisburg, Pa., May 31, 1917.

Hon. Charles E. Patton,
Secretary of Agriculture,
Harrisburg, Pa.

Dear Sir: I have the honor to submit herewith for your approval a report of the results of analyses and microscopical examinations of the samples of Feeding Stuffs received from Special Agents of the Department during 1916. The information includes in detail the results secured for each sample, the guarantees found upon sacks or attached cards and such comments and tabulations as appeared necessary.

It is recommended that this report be published in bulletin form for distribution.

Very respectfully,

JAMES W. KELLOGG,
Chief Chemist.



FEEDING STUFFS REPORT

1916

INTRODUCTION

The information presented herewith constitutes a report of the work performed during 1916 in enforcing the law regulating the sale of Concentrated Commercial Feeding Stuffs. In carrying out the provisions of this Act, it is necessary that the method employed in labeling and guaranteeing the various brands of Feeding Stuffs being sold in the State, be examined and analyses of samples made. Accordingly, Special Agents of the Department visited 310 towns and cities in 65 counties of the State and secured 1,148 official samples of Feeding Stuffs which were sent by express to the Bureau of Chemistry together with a report covering each sample. They were all analyzed for moisture, protein, fat and fiber and each examined microscopically for the presence of inferior or prohibited materials. The chemical and microscopical results show whether or not the guarantees advertised were sustained and whether the certified ingredients or composition were as claimed. As soon as possible after these samples received could be analyzed, reports of the results secured were submitted to the Secretary of Agriculture and mailed to Manufacturers or Importers and to the Dealers from whom the samples were secured including such comments or requests for corrected labelings as were required.

In addition to the official samples there were 263 special samples of Feeds sent to the Department for analysis under the provision in the law making it possible for residents of Pennsylvania to have samples analyzed for a fee of \$1.00. Reports were submitted to the senders showing the results secured together with replies to inquiries with respect to guarantees and methods of labeling to be used for such of these feeds as were to be offered for sale. Many of these special samples were analyzed for the purpose of determining whether or not the guarantees advertised would be sustained

and the shipments accepted or rejected. A table showing the analytical results of special samples is not included in this report as many of these products were only preliminary mixtures, the composition of which was later changed and samples reanalyzed before being offered for sale, the preliminary results not representing the final product as labeled and guaranteed.

Judging from the samples examined during the year there has not been as marked an improvement in the method of labeling and the general character of certain brands of feeds compared with the samples examined last year, as should have been expected. The number of deficiencies increased somewhat over those noted in 1915, especially in the case of Cottonseed Meals where it was found that 30 per cent. were deficient. The general character of the feeds where deficiencies were absent and which were free from whole weed seeds, was good. In many cases the guarantees were considerably exceeded. The use of the so called "Sliding Guarantees" or guarantees for minimum and maximum protein and fat has not been entirely discontinued. There was a decrease in the number of Mixed Feeds found to contain large amounts of whole weed seeds although one-half of the Dairy Feeds with Molasses contained traces and small amounts of whole weed seeds. The Poultry Foods showed an improvement in character, only six of this class being found to contain large amounts of whole weed seeds. Several of the Proprietary Stock Horse and Mule Feeds which were composed principally of corn, oats, alfalfa and molasses, were found to be damaged and mouldy due to the use of inferior molasses in their preparation and no doubt delay and lack of care in transportation contributed to this condition. One of the Dairy Feed samples was also in a damaged condition as charred and inferior grains had been used in its preparation. In many of these cases of damaged feeds brought to our attention, the goods were either disposed of or replaced by the Manufacturers. No samples were found adulterated with large amounts of such materials as peanut hulls and ground corn cobs although two samples of Middlings with Palm Oil were found to contain small amounts of ground corn cobs and one feed contained a small amount of sawdust which may have become accidentally included. One of the samples of Poultry Foods contained one-fourth of its weight of whole weed seeds and 28 per cent. of the samples of this class of feeds showed the presence of traces and small amounts of whole weed seeds. A form of peat called by the trade name "Humus" was found being used in one brand of Swine Feed but upon objection by the Department to the use of this kind of material, the sale of this feed was discontinued.

The prices noted during the year for the several classes of feeds,

except in a few cases, exceeded somewhat those prevailing during 1915, especially in the case of Cottonseed Meals, Gluten Feeds and Poultry Foods as judged from an average of the prices secured. Quite a variation was noted in the selling prices of like classes and brands of feeds as will be noted by referring to the small table comparing the average prices of the two year's period and for the various brands as shown in the large Table (No. IV).

Manufacturers and Importers of Feeding Stuffs submitted during the year, 532 registrations covering over 2,000 brands and kinds of products which were sold in the State during the period covered by this report. Most of them were feeds having proprietary and brand names. About one-fourth of the feeds registered were mixed feeds of various kinds and over 500 or 22 per cent. were classed as Poultry Foods. About one-fourth of the number registered also included Wheat, Rye, Oat, Barley and Buckwheat Offal Feeds.

ACKNOWLEDGMENTS

Acknowledgment is herewith made to those of the Bureau of Chemistry Staff whose chemical work and preparation of other data are included in this report, as follows: V. B. Hausknecht, H. E. Gensler, J. E. Shull, William Weber, A. B. Long, W. E. Huber and P. H. Fairlamb. The microscopical examinations of each sample were made by H. E. Gensler. Many thanks are extended to the Secretary of Agriculture, Hon. Charles E. Patton, and to the General Agent, G. G. Hutchison, for assistance and advice and to all those whose help and co-operation made possible the accomplishment of the year's Feeding Stuffs inspection work.

FEEDING STUFFS REGISTRATIONS

Manufacturers or Importers of Feeding Stuffs who desire to sell their products in Pennsylvania are required to file annually a registration with the Department listing each brand of Feed, showing guaranteed analysis and composition. No charge is made for regis-

trations nor are tax stamps required or licenses to sell issued. As a result of requests from the Department, 532 registrations were received for 1916 covering 2,318 kinds and brands of products. Many Dealers and Jobbers submitted registrations for Feeds which had been or which were subsequently registered by the original producers and accordingly these Feeds were not listed under the names of these jobbers or importers but placed under the proper Manufacturers name. Of the total number registered, 1,527 had distinct brand or proprietary names. The number of firms and brands listed exceeded those received during 1915. The various kinds and brands of Feeding Stuffs registered during 1916 in alphabetical order of the names of Manufacturers or Importers, were as follows:

FEEDING STUFFS REGISTERED FOR 1916.

Abilene Flour Mills Co., The, Abilene, Kans.
Wheat Bran & Screenings.

Acme-Evans Co., Indianapolis, Ind.

Acme Bran,
Acme Chick Feed,
Acme Cracked Corn,
Acme Cream Feed,
Acme Feed,
Acme Feed Meal,
Acme Horse & Mule Feed,
Acme Middlings,
Acme Scratch Feed,
Acme Stock Feed,
E. Z. Chick Feed,
E. Z. Chop Feed,
E. Z. Scratch Feed.

Acme Manufacturing Co., Wheaton, Ill.
Acme Calf Meal,
Acme Pig Meal.

Acme Milling Co., Olean, N. Y.
Acme Dry Mash,
Acme Feed,
Wheat Bran,
Wheat Middlings.

Aetna Mills Co., The, Wellington, Kans.
Wheat Bran,
Wheat Shorts,
White Shorts.

Akron Feed & Milling Co., The, Akron, Ohio.
O. O. B. Stock Feed,
Portage Corn & Oats Chop,
Portage Scratch Feed,
Portage Scratch Feed with Grit,
Portage Stock Feed,
Portage Yellow Feed Meal,
Yellow Hominy Feed.

Alfa Feed Mills, Philadelphia, Pa.
Keystone Alfa Horse Feed.

Alfocorn Milling Co., East St. Louis, Ill.
Alfocorn Chick Feed,
Alfocorn Dairy Feed,
Alfocorn Hen Feed,
Alfocorn Horse & Mule Feed,
Corn & Oats Chops.

Afocorn Milling Co.—Continued.

Diamond "D" Chick Feed,
 Diamond "D" Hen Feed,
 Diamond "D" Hen Feed without Grit,
 Diamond "D" Horse & Mule Feed,
 Full Pail Dairy Feed,
 King Cotton Horse & Mule Feed,
 Leader Horse & Mule Feed,
 Molasses Alfocorn Horse & Mule Feed,
 Molasses Alfocorn Special,
 Sunflower Scratch Feed,
 Sunflower Scratch Feed with Grit,
 X-tra Corn, Horse & Mule Feed,
 X-tra Good Horse & Mule Feed,
 X-tra Green Horse & Mule Feed,
 X-tra Oats, Horse & Mule Feed.

Allen Milling Co., Niagara Falls, N. Y.
 Allen's Full-Nest Mash for Layers,
 Allen's Full-Nest Nutro Chick Mash.

Allen & Wheeler Co., The, Troy, Ohio.

Trojan Bran,
 Trojan Chop Feed,
 Trojan Corn & Oats Feed,
 Trojan Cracked Corn,
 Trojan Feed Meal,
 Trojan Middlings,
 Trojan Mixed Feed.

Allneeda Milling Co., East St. Louis, Ill.

Allneeda Cattle Feed,
 Allneeda Chick Feed,
 Allneeda Horse & Mule Feed,
 Everybody's Horse & Mule Feed,
 I. X. L. Horse & Mule Feed.

Altman, Jr., Gustave, Alexandria, Pa.

Pure Corn Chop,
 Pure Corn & Oats Chop,
 Pure Wheat Bran & Shorts.

American Agricultural Chemical Co., The, New York, N. Y.

Ground Meat Scraps,
 Pure Ground Meat Scraps.

American Hominy Co., Indianapolis, Ind.

Cracked Corn (Chick Size),
 Cracked Corn (Screened),
 Cracked Corn (Not Screened),
 Cracked Corn and Rolled Oats,
 Homco Chick Feed,
 Homco Dairy Feed,
 Homco Dry Mash,
 Homco Hominy Feed,
 Homco Horse Feed,
 Homco Scratch Feed,
 Homco Scratch Feed with Grit,
 Homco Superior Horse Feed,
 Homco Superior Scratch Feed,
 Homcoline Feed,
 Special Horse Feed.

American Linseed Co., New York, N. Y.

Hypro Pure Linseed Meal,
 Old Process Oil Meal.

American Maize Products Co., New York, N. Y.

Cream of Corn Gluten Feed.

American Milling Co., Peoria, Ill.

Amco Alfalfa Molasses Feed,
 Amco Dairy Feed,
 Amco Fat Maker,
 Amco Old Process Linseed Meal,
 Cluck Cluck Scratch Feed,

American Milling Co.—Continued.

Cluck Cluck Scratch Feed with 5 per cent. Grit,
 Sucrene Calf Meal,
 Sucrene Chick Feed,
 Sucrene Chick Feed with 5 per cent. Grit,
 Sucrene Dairy Food,
 Sucrene Hog Meal,
 Sucrene Horse Feed with Alfalfa,
 Sucrene Poultry Mash,
 Sucrene Scratch Feed,
 Sucrene Scratch Feed with 5 per cent. Grit,
 Tip Top Alfalfa Horse Feed,
 Tip Top Sugared Feed.

American Remedy Co., Greencastle, Pa.

Arco Egg Getter,
 Arco Stock Tonic and Conditioner.

Anderson Brothers & Co., York, Pa.

A. B. C. Chick Feed,
 A. B. C. Scratch Feed,
 Hen-O-La Chick Feed,
 Hen-O-La Scratch Feed,
 Must Lay Mash Feed.

Anheuser-Busch Brewing Association, St. Louis, Mo.

Brewers Dried Grains,
 Malt Sprouts.

Animal Products Co., Philadelphia, Pa.

Apco Poultry Meat.

Ansted & Burk Co., The, Springfield, Ohio

Bran,
 Middlings,
 Mixed Feed,
 Ohio Farm Feed.

Anthracite Brewing Co., Mount Carmel, Pa.

Brewers Dried Grains.

Arcady Farms Milling Co., Chicago, Ill.

Arcady Baby Chick Feed,
 Arcady Baby Chick Feed with Grit, Shell, Charcoal,
 Arcady Calf Meal,
 Arcady Certified Dairy Feed,
 Arcady Chick Feed,
 Arcady Chick Feed with Grit, Charcoal,
 Arcady Dairy Feed,
 Arcady Egg Mash,
 Arcady Horse Feed,
 Arcady Poultry Feed,
 Arcady Poultry Feed with Grit, Shell, Charcoal,
 Farm Poultry Feed,
 Farm Poultry Feed, with Grit, Shell, Charcoal.

Archer-Daniels Linseed Co., Minneapolis, Minn.

Old Process Ground Linseed Cake.

Armour Fertilizer Works, Chicago, Ill.

Armour's Blood Meal,
 Armour's Granulated Bone,
 Armour's Meat Meal.

Ashcraft-Wilkinson Co., Atlanta, Ga.

Crown Brand Cottonseed Meal.

Atkinson Milling Co., Minneapolis, Minn.

Red Dog Flour,
 Wheat Bran with Screenings,
 Wheat Flour Middlings with Screenings,
 Wheat Mixed Feed with Screenings,
 Wheat Standard Middlings with Screenings

Atlantic Export Co., New York, N. Y.

Atlantic Grains,
 Doctor Spund Dried Brewers Grains,
 Medal Brand Dried Distillers Grains.

Atlas Feed & Milling Co., Peoria, Ill.
Atlas Distillers Grains.

Atlas Flour Mills Co., Milwaukee, Wis.
Atlas Mixed Wheat Feed,
Atlas Wheat Bran with Ground Screenings not exceeding Mill Run,
Atlas Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Standard Wheat Middlings with Ground Screenings not exceeding Mill Run.

Ayer, H. O., Ulster, Pa.
Brewers Grains,
Distillers Grains,
Gluten Feed,
Hominy Feed,
Tankage.

Baldwin Flour Mills, Minneapolis, Minn.
Baldwin Wheat Bran with not exceeding Mill Run of Ground Screenings,
Baldwin Wheat Flour Middlings with not exceeding Mill Run of Ground Screenings,
Baldwin Wheat Red Dog with not exceeding Mill Run of Ground Screenings,
Baldwin Wheat Shorts with not exceeding Mill Run of Ground Screenings.

Baldwin, Prince & Co., Inc., Norfolk, Va.
Dominion Brand Prime Cottonseed Meal,
Golden Brand Choice Cottonseed Meal,
Quaker Brand Cottonseed Feed.

Ballard & Ballard Company, Louisville, Ky.
Ballard's Bran,
Ballard's Kentucky Farm Feed,
Ballard's Mixed Wheat Feed.

Banner Milling Company, Buffalo, N. Y.
Banner Bran,
Banner Flour Midds,
Banner Mixed Feed,
Banner Standard Midds.

Barber Milling Company, Minneapolis, Minn.
Pure Wheat Bran Flakes,
Pure Wheat Low Grade Flour,
Pure Wheat Middlings,
Pure Wheat White Middlings,
Pure Wheat White Satin Mixed Feed.

Baringer, M. F., Philadelphia, Pa.
Big B Dairy Feed,
Corn Bran,
Dried Brewers Grains,
Hominy Feed,
Malt Sprouts,
M. F. B. Prime Cottonseed Meal.

Barley Foods Company, Morgantown, W. Va.
Barley Chop,
Barley Middlings.

Bartholomew, C. D., Centre Hall, Pa.
Centre Hall Scratch Feed.

Bartlett Co., J. E., Jackson, Mich.
National Gluten Feed.

Baugh & Sons Co., Philadelphia, Pa.
Baugh's Meat Meal for Poultry,
Baugh's Special Ground Bone for Poultry.

Bay State Milling Company, Winona, Minn.
Reddog Flour,
Rye Middlings,
Winona Coarse Wheat Bran,
Winona Fancy Mixed Wheat Feed and Wheat Screenings,
Winona Fancy White Flour Middlings,
Winona Wheat Middlings and Wheat Screenings.

Beck Cereal Co., Detroit, Mich.
Royal Chop Feed.

Berg Company, The, Philadelphia, Pa.
Berg's 3 Medal Beef Scraps,
Berg's 3 Medal Poultry Meat.

Bernet, Craft & Kauffman Mfg. Co., Mt. Carmel, Ill.
Middlings,
Mixed Feed (Bran & Midds),
Mt. Carmel Bran.

Biddle, T. M., Altoona, Pa.
Acme Horse Chop,
Crescent Corn & Oats Chop,
Eclipse Breakfast Food,
Eclipse Poultry Food,
Gem Middlings,
Gilt-Edge Corn Chop,
My Best Horse Feed.

Big Diamond Mills Co., Minneapolis, Minn.
Big Diamond Bran,
Big Diamond Flour Midds,
Big Diamond Mixed Feed,
Big Diamond Standard Midds.

Big Four Milling Co., Cleveland, Ohio.
Dandy Chop Feed,
Co-Boss Dairy Feed,
Ecota Horse Feed,
Ecota Scratch Feed,
Egg-A-Day Scratch Feed,
Four A Dairy Feed,
Four A Horse Feed,

Fourota Alfalfa Meal,
Fourota Chick Feed,
Fourota Growing Feed,
Fourota Hog Feed,
Fourota Horse & Mule Feed,
Fourota Mash Feed,
Fourota Scratch Feed.

Blaine, Mackey, Lee Company, North East, Pa.
Mix Feed with Mill Run Screenings,
Wheat Bran with Mill Run Screenings
Wheat Middlings with Mill Run Screenings.

Blairsdell Milling Co. Minneapolis, Minn.
Wheat Bran with Ground Screenings not exceeding Mill Run.

Blake Milling Co., The, Edwardsville, Ill.
Winter Wheat Bran,
Winter Wheat Middlings.

Blamberg Brothers, Inc., Baltimore, Md.
Cornell Brand Beef Scraps,
Cornell Brand Chick Feed,
Cornell Brand Developing Mash,
Cornell Brand Dry Mash,
Cornell Brand Meat & Bone Scraps,
Cornell Brand No. 1 Pigeon Feed,
Cornell Brand No. 2 Pigeon Feed,
Cornell Brand No. 3 Pigeon Feed,
Cornell Brand No. 4 Pigeon Feed,
Cornell Brand Scratch Feed
Cornell Brand Special Beef Scraps,
Exlnt Brand Dry Mash,
Exlnt Brand Scratch Feed.

Blank & Gottshall, Sunbury, Pa.
B. & G. Baby Chick Feed,
B. & G. Chick Feed,

Blank & Gottshall—Continued.

B. & G. Chick Mash Food,
 B. & G. Dairy Food,
 B. & G. Developing Food,
 B. & G. Hen Food,
 B. & G. Hen-O-La Chick Food,
 B. & G. Hen-O-La Mash Food,
 B. & G. Hen-O-La Scratch Food,
 B. & G. Horse Food,
 B. & G. Mash Food,
 B. & G. No. 2 Chick Food,
 B. & G. No. 2 Hen Food,
 B. & G. Pigeon Food,
 Bran,
 Corn Bran & Siftings,
 Corn Chop,
 Corn & Oats Chop,
 Middlings,
 Rye Chop,
 Rye Middlings.

Blatchford Calf Meal Factory, Waukegan, Ill.

Blatchford's Calf Meal,
 Blatchford's Fill the Basket Egg Mash,
 Blatchford's Dairy Brand Calf Meal,
 Blatchford's Milk Mash,
 Blatchford's Pig Meal.

Blish Milling Company, Seymour, Ind.

Blish's Bull's Eye Mixed Feed.

Bolgiano & Son, J., Baltimore, Md.

Square Deal Beef Scraps for Poultry,
 Square Deal Chick Feed,
 Square Deal Chick Starter,
 Square Deal Pigeon Food,
 Square Deal Poultry Food.

Bosler Co., C. W., Ogontz, Pa.

Alfalfa Feed,
 Hen Feed.

Bowen & Murphy, Birmingham, Ala.

Cowslip Cottonseed Meal.

Bradford & Son, Centre Hall, Pa.

Hen Food,
 W. W. Bran,
 W. W. Middlings.

Brehm, H. F., Waterloo, N. Y.

Brehm Beef Scrap & Bone.

Brode & Co., F. W. Memphis, Tenn.

Dove Brand Cottonseed Meal,
 Jay Brand Cottonseed Meal,
 Owl Brand Cottonseed Meal.

Brown Co., The, Trenton, N. J.

Capital Meat Scraps.

Buckeye Cereal Co., The, Massillon, Ohio.

Bar X Dairy Feed,
 Beaver Valley Dairy Feed,
 Beaver Valley Horse Feed,
 Buckeye Scratch Feed,
 Buckeye Stock Feed,
 Energy Horse Feed,
 Malto Dairy Feed,
 Shaffer's Special Feed,
 Sweet Moselle Horse Feed.

287709

Buckeye Cotton Oil Co., The, Cincinnati, Ohio.

Buckeye Prime Cottonseed Meal.
 Buco Cottonseed Feed.

Buffalo Cereal Co., Buffalo, N. Y.

"B" Corn Meal,
 Bufceco Chick Feed,
 Bufceco Chop Feed,
 Bufceco Creamery Feed,
 Bufceco Dairy Feed,
 Bufceco Hominy Feed,
 Bufceco Horse Feed,
 Bufceco Intermediate Scratching Grains,
 Bufceco Laying Mash,
 Bufceco Pigeon Feed,
 Bufceco Poultry Mash,
 Bufceco Scratching Grains,
 Bufceco Steam Cooked Feed,
 Bufceco Stock Feed,
 Bufcolene Horse Feed,
 Iroquois Chick Feed,
 Iroquois Poultry Mash,
 Iroquois Scratching Grains,
 Mohawk Corn Meal,
 Seneca Corn Meal,
 Target Scratching Grains.

Burkholder, John R., Lancaster, Pa.
 Vovineeda,
 Palm Oil Midds.

Bushkill Milling Co., Easton, Pa.
 Clear Grain Chick Food,
 Clear Grain Scratch Food,
 Dry Mash for Poultry,
 Mix Feed.

Campbell & Co., C. L., Little Rock, Ark.
 Baby Camel Brand, Cottonseed Meal,
 Double Hump Camel Brand, Cottonseed Meal,
 Single Hump Camel Brand, Cottonseed Meal.

Campbell Mfg. Co., L. G., Owatonna, Minn.
 Choice Bran,
 Flour Middlings,
 Low Grade Flour.

Candee Incubator & Brooder Co., Eastwood, N. Y.
 Candee Brand Chick Feed.

Cannon Valley Milling Co., Minneapolis, Minn.
 Billie C. V. Low Grade Flour,
 C. V. Bran with Ground Screenings not exceeding Mill Run,
 C. V. Flour Middlings (Pure Wheat Middlings),
 C. V. Standard Middlings (Pure Wheat Middlings).

Canonsburg Milling Co., Canonsburg, Pa.
 Cotton Seed Meal,
 Linseed Oil Meal,
 Dried Beet Pulp.

Canton Mercantile Co., Canton, Pa.
 Veribest Scratch Grains.

Cataract City Milling Co., Niagara Falls, N. Y.
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
 Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
 Wheat White Middlings with Ground Screenings not exceeding Mill Run.

Cavalier Milling Co., Cavalier, N. D.
 Bran,
 Middlings,
 Mixed Feed.

Cereal Mills Co., Wausau, Wis.
 Corn and Oats Ground Feed,
 Hen Feed,
 Hominy Feed,
 Red Dog Flour,
 Wheat Bran with not exceeding Mill Run Ground Screenings,
 Wheat and Rye Middlings with not exceeding Mill Run Ground Screenings.

- Chamberlin Co., F. B., St. Louis, Mo.
 Chamberlin's Perfect Chick Feed,
 Chamberlin's Perfect Hen Feed,
 Chamberlin's Perfect Mash Egg Feed,
 Chamberlin's Perfect Pigeon Feed.
- Chambers & Bro., S. K., Elkview, Pa.
 June Pasture Dairy Feed.
- Champion Mfg. Co., Barto, Pa.
 Chickseat Feed for Baby Chicks.
- Champion Roller Milling Co., Richmond, Ind.
 Wheat Bran,
 Wheat Middlings.
- Chapin & Company, Hammond, Ind.
 Acorn Dairy Ration,
 Ajax Flakes (Distillers Dried Grains),
 Green Diamond Brand Cottonseed Meal,
 Green Diamond Hominy Meal,
 Lactola Dairy Feed,
 Marvel Malt Sprouts,
 Pure Linseed Meal,
 Unicorn Dairy Ration.
- Chase, Hibbard Mfg. Co., Elmira, N. Y.
 Blue Ribbon Poultry Food.
- Chesbro Brothers, Attica, N. Y.
 Chesbro's Stock Feed,
 C. O. B. Feed,
 Mixed Feed "E,"
 Molasses Screenings Feed,
 Superior Stock Feed.
- Christenson Co., C. S., Madelia, Minn.
 Wheat Bran,
 Wheat Flour Middlings,
 Wheat Standard Middlings.
- Christian & Co., Geo. C., Minneapolis, Minn.
 Berkshire Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Jersey Wheat Bran with Ground Screenings not exceeding Mill Run,
 Poland Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
 Pure Wheat Red Dog Flour.
- Christian & Co., L., Minneapolis, Minn.
 Bran,
 Flour Midds,
 Reddog Flour,
 Standard Midds.
- Cincinnati Animal Food Co., Cincinnati, O.
 Porkopolis Brand Digester Tankage,
 Porkopolis Brand Meat Scraps.
- Cincinnati Grain & Hay Co., Cincinnati, O.
 No-Better Horse & Mule Feed,
 No-Better Poultry Feed,
 No-Better Sweet Dairy Feed.
- City Roller Mills, New Castle, Pa.
 Palm Oil Middlings.
- Clarke Brothers & Company, Peoria, Ill.
 Empire State Dairy Feed.
- Claro Milling Co., Wasca, Minn.
 Claro Mixed Feed,
 Claro Reddog Flour,

Claro Milling Co.—Continued.

Claro Wheat Bran,
Claro Wheat Flour Middlings,
Claro Wheat Middlings,
Claro Wheat Standard Middlings.

Cleveland Milling Co., Cleveland, Ohio.

Choice White Middlings,
Hominy Feed,
Pure Coarse Corn Meal,
Pure Corn and Oat Chop,
Pure Cracked Corn,
Pure Granulated Corn Meal,
Special Fine Middlings,
Standard Middlings,
Wheat Bran,
Wheat Coarse Middlings with Ground Screenings not exceeding Mill Run.

Cleveland Provision Co., The, Cleveland, Ohio.

Premium Digester Tankage,
Premium Meat Scrap.

Clinton Sugar Refining Co., Clinton, Iowa.

Clinton Corn Gluten Feed,
Clinton Corn Oil Cake Meal.

Clover Leaf Milling Co., Buffalo, N. Y.

Clover Leaf Calf Meal,
Clover Leaf Dairy Feed,
Clover Leaf Dairy Ration,
Clover Leaf Horse Feed,
Peerless Horse Feed.

Cole Milling Co., H. C., Chester, Ill.

Wheat Bran,
Wheat Middlings.

Colonial Food Digester Co., Montrose, Pa.

Colonial Food Digester,
Colonial Poultry Regulator.

Colton Brothers Co., The, Bellefontaine, Ohio.

Cracked Corn,
Feed Meal,
Mixed Feed with Ground Screenings not exceeding Mill Run,
Pure Corn and Oat Feed,
Wheat Bran including Ground Screenings not exceeding Mill Run,
Wheat Middlings including Ground Screenings not exceeding Mill Run.

Columbia Milling Co., Columbia, Pa.

Chick Feed,
Hen Feed.

Commander Mill Co., Minneapolis, Minn.

Commander Mill Co., Bran with Ground Screenings not exceeding Mill Run,
Commander Mill Co., Flour Midds with Ground Screenings not exceeding Mill Run,
Commander Mill Co., Mixed Feed with Ground Screenings not exceeding Mill Run,
Commander Mill Co., Standard Midds with Ground Screenings not exceeding Mill Run.

Commercial Milling Co., Detroit, Mich.

Cracked Corn,
Heukel's Coarse Feed Corn Meal,
Mixed Feed with Ground Screenings not exceeding Mill Run,
Standard Wheat Middlings with Ground Screenings,
Wheat Bran,
Wheat Fine Middlings.

Conkey Company, G. E., Cleveland, Ohio.

Conkey's Buttermilk Starting Food (For Chicks).

Conklin & Son, Inc., E. W., Binghamton, N. Y.

Arrow Chick Food,
Arrow Egg Food,
Atlas Scratch Grain.

Consolidated Dressed Beef Co., Philadelphia, Pa.
Consolidated Beef Scrap.

Continental Cereal Co., Peoria, Ill.
Continental Gluten Feed.

Coombs Milling Co., W. A., Coldwater, Mich.
Buckwheat Feed,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Coppes Bros. & Zook, Napanee, Ind.
Bran,
Middlings,
Reddog Flour.

Corby Company, The, Langdon, D. C.
Corby Dried Grains from the manufacture of Yeast.

Corn Products Refining Company, New York, N. Y.
Argo Corn Oil Cake Meal,
Buffalo Corn Gluten Feed,
Crescent Corn Gluten Feed,
Diamond Corn Gluten Meal,
Diamond Hog Meal,
Globe Corn Gluten Feed.

Cover Supply Co., Inc., Baltimore, Md.
C. S. C. Feed.

Crocker, William G., Minneapolis, Minn.
Red Dog Flour,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Crookston Milling Co., Crookston, Minn.
Bran,
Fine Middlings,
Flour Middlings.

Crouch Brothers Company, Erie, Pa.
Pure Corn & Oats Chop,
Pure Corn Meal,
Pure Cracked Corn,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Cyphers Incubator Co., Chicago, Ill.
Complete Chick Food,
Fertile Egg Mash,
Laying Mash,
Mealed Alfalfa,
Meat Mash,
Pigeon Food,
Standard Chick Food.

Danville Milling Co., Danville, Pa.
Corn Chop,
Corn & Oats Chop,
Gluten,
Hen Food,
O. P. Oil Meal,
Wheat Bran,
Wheat Middlings.

Darling & Company, Chicago, Ill.
Darling's Blood Meal,
Darling's Bone Meal,
Darling's Granulated Bone,
Darling's High Protein Meat Scraps,
Darling's Meat Crisps,
Darling's Standard Meat Scraps,
Darling's 40 per cent. Protein Digester Tankage,
Darling's 60 per cent. Protein Digester Tankage.

Davis, S. P., Little Rock, Ark.

Good Luck Brand Cracked Screened Cake,
Good Luck Cottonseed Meal,
Standard Cold Pressed Cotton Seed Cake,
Veribest Brand Cottonseed Meal,
Veribest Brand Cracked Screened Cake.

Deerfield Milling Co., Knoxville, Pa.

Deerfield Chicken Mash,
Distillers Dried Grains,
Old Process Oil Meal,
Wheat Bran,
Wheat Screenings Meal,
Wheat Shorts.

Diehl, Omwake & Diehl, Chambersburg, Pa.
D. O. D. Dairy Feed.

Denver Alfalfa Milling & Products Co., The, Hartman, Colo.
Alfalfa Meal.

Deposit Milling Co., Deposit, N. Y.

Corn Meal,
Cracked Corn,
Deposit White Mixed Feed,
Granulated Corn Meal,
Ground Corn, Oats & Rye,
Life Saver Feed,
Pure Alfalfa Meal,
Pure Corn & Oats Ground,
Pure Grain Mixed Hen Feed,
Scratch Grains,
Wheat Bran,
Wheat Middlings,
Wheat Mixed Feed.

Deutsch & Sickert Co., Milwaukee, Wis.

Barley Feed,
Bourbon Distillers Dried Grains,
Flour Middlings,
Hominy Feed,
Malt Sprouts,
Pure Dried Brewers Grains,
Pure Wheat Bran,
Pure Wheat Middlings,
Reddog Flour,
Rye Middlings,
Spirits Distillers Dried Grains,
Wheat Bran with Ground Screenings,
Wheat Middlings with Ground Screenings.

Dewey Brothers Co., The, Blanchester, Ohio.

Bourbon Three D Grains,
Buckeye Gluten Feed,
Corn Three D Grains,
Dewey's Digester Tankage,
Dewey's Horse & Mule Feed,
Dewey's Ready Ration,
Dewey's Stock Feed,
Eagle Three D Grains,
Hiprotein Wheat Middlings,
Winter Wheat Bran,
Winter Wheat Middlings,

Dickinson Co., The Albert, Chicago, Ill.

Alfalfa Meal,
Colonial Chick Feed with Grit,
Colonial Chick Feed no Grit,
Colonial Developing Feed no Grit,
Colonial Developing Feed with Grit,
Colonial Scratch Feed no Grit,
Colonial Scratch Feed with Grit,
Crescent Chick Feed no Grit,
Crescent Chick Feed with Grit,
Crescent Scratch Feed no Grit,

Dickinson Co.—Continued.

Crescent Scratch Feed with Grit,
 Globe Chick Feed no Grit,
 Globe Chick Feed with Grit,
 Globe Developing Feed no Grit,
 .. Globe Developing Feed with Grit,
 Globe Egg Mash,
 Globe Pigeon Feed no Grit,
 Globe Scratch Feed no Grit,
 Globe Scratch Feed with Grit,
 Hobby Horse Feed,
 Honeysuckle Feed,
 King Pigeon Feed no Grit,
 King Pigeon Feed with Grit,
 Oasis Horse Feed,
 Pine Tree Chick Feed no Grit,
 Pine Tree Chick Feed with Grit,
 Pine Tree Scratch Feed no Grit,
 Pine Tree Scratch Feed with Grit,
 Queen Poultry Mash,
 Rival Horse Feed,
 Stag Stock Feed,
 White Cross Chick Feed no Grit,
 White Cross Chick Feed with Grit,
 White Cross Horse Feed,
 White Cross Scratch Feed no Grit,
 White Cross Scratch Feed with Grit,
 White Cross Stock Feed.

Dixie Mills Co., East St. Louis, Ill.

Anchor Horse & Mule Feed,
 Anchor Molasses Horse & Mule Feed,
 Dixie Chick Feed,
 Dixie Dairy Feed,
 Dixie Hen Feed,
 Dixie Horse & Mule Feed,
 Polo Hen Feed,
 Polo Molasses Feed.

Dold Packing Co., Jacob, Buffalo, N. Y.

Dold Quality Chick Feed,
 Dold Quality Digester Tankage,
 Dold Quality Meat and Bone Meal,
 Dold Quality Meat and Bone Scrap,
 Dold Quality No. 2 Meat and Bone Scrap,
 Dold Quality Poultry Bone,
 Dold Soluble Blood Flour.

Douglas Company, Cedar Rapids, Iowa.

Douglas Corn Gluten Feed.

Dousman Milling Co., The John P., DePere, Wis.

Reddog Flour,
 Wheat Bran,
 Wheat Middlings.

Doylestown Poultry Supply Co., Doylestown, Pa.

Chick Feed,
 Mash Feed.

DuBois Brewing Co., DuBois, Pa.

Dried Brewers Grains.

Duff, G. A., Chatham Run, Pa.

Mixed Chop,
 Pure Wheat Bran,
 Pure Wheat Middlings.

Duhne, Francis, Milwaukee, Wis.

Malt Sprouts,
 Onyx Dried Grains.

Duluth Superior Milling Co., Duluth, Minn

Boston Mixed Feed,
 Duluth Imperial Bran,
 Flour Middlings,
 Reddog Flour,
 S. Middlings.

Duluth Universal Milling Co., Duluth, Minn.

Bran with Ground Screenings not exceeding Mill Run,
Flour Middlings with Ground Screenings not exceeding Mill Run.

Dunlop Mills, The, Richmond, Va.

Dunlop Arrow Ship Stuff and Ground Recleaned Screenings not exceeding
Mill Run.

Dunlop Arrow Wheat Bran.

Eagle Roller Mill Co., New Ulm, Minn.

No. 2 Feed (Corn & Oats),

Reddog Superb Flour,

Flour Middlings with Ground Screenings not exceeding Mill Run,

Rye Feed with Ground Screenings not exceeding Mill Run,

Wheat Bran with Ground Screenings not exceeding Mill Run,

Wheat Middlings with Ground Screenings not exceeding Mill Run,

Yellow Hominy Feed.

Early & Daniel Co., The, Cincinnati, Ohio.

Ben Hur Horse and Mule Feed,

Ce-re-a-lia Egg Mash,

Ce-re-a-lia Rex Chop,

Ce-re-a-lia Sweets for Dairy,

Corn and Oats Chop,

Eaden Chick,

Eaden Scratch with Grit,

Eaden Scratch no Grit,

Prime Cottonseed Meal,

Quality Horse & Mule Feed,

Tuxedo Chick,

Tuxedo Chop,

Tuxedo Scratch with Grit,

Tuxedo Scratch no Grit.

Eberts, H. F. H., Little Rock, Ark.

Milko Cotton Seed Meal.

Eby & Son, Jonas F., Lancaster, Pa.

Conestoga Gluten Feed,

Crystaloid Dairy Feed.

Eckhart Milling Co., B. A., Chicago, Ill.

Bran with Ground Screenings not exceeding Mill Run,

Middlings with Ground Screenings not exceeding Mill Run,

Flour Middlings,

Mixed Feed, Bran and Middlings with Ground Screenings not exceeding Mill
Run,

Rye Middlings.

Elba Manufacturing Co., Charlotte, N. C.

Cotton Seed Feed,

Cotton Seed Meal.

Eldred Mill Co., Jackson, Mich.

Big League Cotton Seed Meal,

Eldred Cotton Seed Meal,

Pure Bran,

Pure Middlings,

Pure Mill Feed.

Elizabeth City Oil & Fertilizer Co., Inc., Elizabeth City, N. C.

Cotton Seed Meal.

Elkland Roller Mills, Elmira, N. Y.

Buckwheat Middlings,

Cow-N-S-Que Dairy Feed,

Pure Wheat Bran.

Pure Wheat Middlings.

Elk View Poultry Supply House, Harrisburg, Pa.

Horse Feed.

Ellis & Son, David, Indiana, Pa.

Corn and Oats Chop,

Mixed Chop,

Royal Meat Mash,

Royal Poultry Food.

Empire Grain & Elevator Co., Binghamton, N. Y.

Egee Dairy Feed,
Egee Horse Feed,
Egee Mixed Feed,
Egee Stock Feed.

Empire Milling Co., Minneapolis, Minn.

Empire Bran with Ground Screenings not exceeding Mill Run,
Empire Flour Middlings with Ground Screenings not exceeding Mill Run,
Empire Mixed Feed with Ground Screenings not exceeding Mill Run,
Empire Standard Middlings with Ground Screenings not exceeding Mill Run.

Empire Milling Co., Newton, Kans.

Pure Wheat Shorts,
Wheat Bran and Screenings,
Wheat Mixed Feed and Screenings.

Empire Mills, Olean, N. Y.

Black Hawk Bran,
Brewers Dried Grains,
Dried Beet Pulp,
Empire Feed,
Mayflower Bran,
Pure Crescent Middlings.

Emporium Milling Co., Emporium, Pa.

Emporium Feed,
No. 1 Provender Pure Corn and Oats Chop.

England & Co., Charles, Baltimore, Md.

Distillers Rye Grains.

Eshelman, John W., Lancaster, Pa.

J. W. E.'s Alfalfa Horse Feed,
J. W. E.'s Alfalfa Molasses Horse Feed,
J. W. E.'s Beef Scrap,
J. W. E.'s Calf Meal,
J. W. E.'s Chick Feed no Grit,
J. W. E.'s Chick Feed 5 per cent. Grit,
J. W. E.'s Corn Bran,
J. W. E.'s Corn and Oats Chop,
J. W. E.'s Developing Feed, no Grit,
J. W. E.'s Digester Tankage,
J. W. E.'s Fish Scrap,
J. W. E.'s Hog Meal,
J. W. E.'s Home-made Dairy Feed,
J. W. E.'s Laying Mash,
J. W. E.'s Pigeon Feed no Grit,
J. W. E.'s Poultry Bone,
J. W. E.'s Scratch Feed with 5 per cent. Grit,
J. W. E.'s Scratch Feed no Grit,
J. W. E.'s Stock Feed.

Evans Milling Co., Indianapolis, Ind.

Evans Hominy Feed.

Everett, Aughenbaugh & Co., Waseca, Minn.

E-A Co. Mixed Feed,
E-A Co. Wheat Bran,
E-A Co. Wheat Middlings.

Excello Feed Milling Co., St. Joseph, Mo.

Alfalfa Meal,
Excello Cattle Fattener,
Excello Chick Feed,
Excello Dairy Feed,
Excello Hen Feed,
Excello Horse Feed,
Excello Molasses Feed,
Excello Poultry Mash,
Reliable Hen Feed,
Reliable Horse and Mule Feed,
Reliable Molasses Feed,
Sho-Me Horse and Mule Feed.

Excelsior Mill Co., Yankton, S. D.
Wheat Bran,
Wheat Shorts.

Farabaugh, F. E., Patton, Pa.
Dandy Dry Mash,
Mixed Hen Feed,
Wheat Bran,
Wheat Middlings.

Faramel Manufacturing Co., Buffalo, N. Y.
Boggs Ceramel Horse Feed,
Faramel Alpha Horse Feed,
Faramel Dairy Feed,
Faramel Horse Feed,
Faramel Special Scratch Feed.

Farmers Feed Co., New York, N. Y.
Bull Brand Dried Brewers Grains.

Federal Stock Food Co., Mifflinburg, Pa.
Federal Poultry Tonic,
Federal Stock Tonic.

Fergor Grain Co., Cincinnati, Ohio.
Blue Boar Hog Feed,
Columbia Little Chick Feed,
Columbia Scratch Grains,
Derby Horse Feed,
Nutritia Dairy Feed,
Nutritia Distillers Dried Grains,
Nutritia Horse Feed,
Nutritia Mixed Feed,
Nutritia Winter Wheat Bran with Mill Run Ground Wheat Screenings not
over 3 per cent.,
Nutritia Winter Wheat Middlings,
Park Scratch Grains,
Sunshine Dairy Feed,
York Dairy Feed.

Finch & Co., Joseph, Pittsburgh, Pa.
Distillers Dried Grains.

Finn, George M., Syracuse, N. Y.
Chicken Feed prepared from Ground Meat and Bone Scrap.

Fleischmann Co., The, New York, N. Y.
Fleischmann's Dried Grains (F. M. Co.),
Fleischmann's Dried Grains (I. V. Mfg. Co.).

Flory Milling Co., The, Bangor, Pa.
Extra Rye Corn and Oat Feed,
Globe Cow Feed,
Golden Egg Chick Feed,
Golden Egg Dry Mash,
Golden Egg Scratch Feed,
Pure Rye Middlings,
Pure Wheat Bran,
Pure Wheat Middlings,
Special Mixed Horse Feed.

Flory Milling Co., The, Nazareth, Pa.
Globe Cow Feed.

Franke Grain Co., The, Milwaukee, Wis.
Rye Middlings,
Wheat Bran with Screenings,
Wheat Flour Middlings,
Wheat Middlings with Screenings,
Wheat Reddog Flour.

Franklin City Mills, Franklin, Pa.
Franklin Horse Feed.

Franklin Milling Co., Swineford, Pa.
Franklin Stock Feed.

Frisch & Co., J. M., Baltimore, Md.

Alfalfa Meal,
Choice Cotton Seed Meal,
Dried Brewers Grains,
Dried Distillers Grains,
Dried Malt Sprouts,
Gluten Feed,
Hominy Feed,
Old Process Linseed Meal,
Prime Cottonseed Meal.

Fritch, D. D. & M. D., Macungie, Pa.

Corn Chop,
Corn and Cob Meal,
Keystone Germ Feed,
Mix Chop,
Rye Middlings,
Wheat Bran,
Wheat and Rye Middlings.

Fritz Co., The, Philadelphia, Pa.

Ideal Brand Meat and Bone Scraps,
Satisfaction Brand Meat and Bone Scraps.

Fuhrmann & Schmidt Brewing Co., Shamokin, Pa.

Brewers Dried Grains.

Furst Brothers, Cedar Springs, Pa.

Brewers Dried Grains,
Flour Middlings,
Furst Pure Corn Chop,
Furst Pure Mixed Chop,
Furst Pure Wheat Middlings,
Oil Meal,
Standard Middlings.

Gamble, Gheen & Co., Bellefonte, Pa.

Excelsior Chick Feed,
Excelsior Hen Feed,
Mixed Chop,
Pure Corn Chop,
Pure Wheat Bran,
Pure Wheat Middlings.

Gambrill Manufacturing Co., C. A., Baltimore, Md.

Patapsco Bran with Ground Screenings not exceeding Mill Run,
Patapsco Brown Middlings with Ground Screenings not exceeding Mill Run,
Patapsco "G" Middlings,
Patapsco Hog Feed,
Patapsco Horse Feed,
Patapsco Middlings with Ground Screenings not exceeding Mill Run,
Patapsco Premier Middlings,
Patapsco White Middlings.

Gambrill, Thomas Co., Frederick, Md.

G. T. Corn and Oat Product Feed,
G. T. Dairy Feed,
G. T. Horse Feed.

Gandy & Co., O., South Whitley, Ind.

Chop Feed,
Gandy's Standard A. Chick Feed,
Gandy's Standard A. Poultry Feed.

Garber, E. W., Mount Joy, Pa.

Garber's Poultry Powder,
Garber's Stock Food.

Garland Milling Co., Greensburg, Pa.

Garland Mixed Feed.

Gibson Distilling Co., Gibsonton, Pa.

Distillers Dried Rye Grains.

Globe Elevator Co., Buffalo, N. Y.

Anchor Brand Dairy Feed,
 Anchor Brand Horse Feed,
 Anchor Brand Scratch Feed,
 Blue Ribbon Developing Feed,
 Blue Ribbon Growing Mash,
 Blue Ribbon Horse Feed,
 Blue Ribbon Laying Mash,
 Blue Ribbon Little Chick Feed,
 Blue Ribbon Pigeon Feed,
 Blue Ribbon Scratch Feed,
 Buffalo Stock Feed,
 Corn Bran,
 Globe Dairy Feed,
 No. 1 Chop Feed.

Godshall & Co., A. C., Lansdale, Pa.

Chick Feed,
 Corn Meal,
 Dry Mash,
 Ground Ear Corn,
 Mixed Chop,
 Rye Middlings,
 Scratch Feed,
 Wheat Bran,
 Wheat Middlings,

Golden Grain Milling Co., E. St. Louis, Ill.

Ben Hur Horse & Mule Feed,
 Cornette Horse & Mule Feed,
 Economy Scratch Feed,
 Golden Grain Alfalfa Meal,
 Golden Grain Alfalfa Molasses Feed,
 Golden Grain Dry Horse & Mule Feed,
 Golden Grain Chick Feed,
 Golden Grain Horse & Mule Feed,
 Golden Grain Scratch Feed,
 Ideal Horse & Mule Feed,
 Mascot Horse & Mule Feed,
 Percheron Horse & Mule Feed,
 Puritan Horse & Mule Feed,
 Southern Horse & Mule Feed.

Goldsboro Pure Feed Co., Goldsboro, Pa.

Alfalfa Horse & Mule Feed,
 Challenge Dairy Feed,
 Gold-O Cane Molasses Dairy Feed,
 Gold-O Pig Grower,
 Gold-O Poultry Mash,
 Gold-O Pure Cane Molasses Dairy Feed No. 2,
 Gold-O Pure Cane Molasses Horse & Mule Feed,
 Gold-O Pure Cane Molasses Swine Feed,
 Gold-O Scratch Feed,
 Gold-O Stock Feed,
 June Bug Cane Molasses Dairy Feed.

Goshen Milling Co., The, Goshen, Ind.

Bran,
 Middlings.

Grafton Roller Mill Co., The, Grafton, N. Dak.

Grafton Bran,
 Grafton Middlings,
 Grafton Wheat Feed,
 Keystone Wheat Feed.

Grain Products Co., Wichita, Kans.

Wheat Bran with Mill Run of Screenings,
 Wheat Shorts Only.

Grain Products Sales Co., Buffalo, N. Y.

Columbia Corn Distillers Grains,
 Yankee Distillers Grains.

Graybill & Sons, John D., Belleville, Pa.

Bran,
 Corn Chop,

Graybill & Sons, John D.—Continued.

Corn Meal,
Middlings,
Oats Chop,
Pure Corn & Oats Chop.

Great Northern Flour Mills Co., Minneapolis, Minn.

Wheat Bran with Ground Screenings not exceeding Mill Run.
Wheat Flour Middlings,
Wheat Middlings,
Wheat Reddog Flour.

Great Western Feed Co., St. Louis, Mo.

Alfalfa & Molasses Feed,
City of Pittsburgh Special,
Merit Horse & Mule Feed,
Purity Dairy Feed,
Purity Hen Feed,
Purity Horse & Cattle Feed,
Purity Horse & Mule Feed,
Purity Syrup Feed.

Greene Chick Feed Co., Marblehead, Mass.

Greene's First Feed,
Greene's Poultry Scraps.

Griffin Co., The W. M., Fort Wayne, Ind.

Poultry Compound,
Stock Mixture.

Gronauer, Gus, & Co., Memphis, Tenn.

Daisy Brand Cottonseed Meal,
Globe Brand Cottonseed Meal.

Guarantee Food Co. of Penna., Lewisburg, Pa.

Keystone Poultry Conditioner,
Keystone Stock Conditioner.

Gwinn Milling Co., The, Columbus, Ohio.

Chick Feed,
Cracked Corn,
Dairy Feed with Screenings not exceeding Mill Run,
Horse and Mule Feed,
Reddog Flour,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Middlings with Screenings not exceeding Mill Run.

Hales & Edwards Co., Chicago, Ill.

Brewers Dried Grains,
Cackle Fine Chick Feed (With Grit & Charcoal),
Cackle Fine Chick Feed no Grit,
Cackle Poultry Feed (With Grit, Shell & Charcoal),
Cackle Poultry Feed no Grit,
Excelsior Horse Feed,
Gold Flake Dairy Feed,
Greeno Feed,
Harvest Horse Feed,
Malt Sprouts,
Pioneer Feed,
Pioneer Hog Feed,
Pound Squab Pigeon Feed with Grit,
Pound Squab Pigeon Feed no Grit,
Red Comb Alfalfa Meal,
Red Comb Chick Mash,
Red Comb Coarse Chick Feed (With Grit & Charcoal),
Red Comb Coarse Chick Feed no Grit,
Red Comb Crate Fattener,
Red Comb Fine Chick Feed (With Grit & Charcoal),
Red Comb Fine Chick Feed no Grit,
Red Comb Meat Mash (With Shell & Charcoal),
Red Comb Poultry Feed (With Grit, Shell & Charcoal),
Red Comb Poultry Feed no Grit,
Red Horn Calf Meal,
Red Horn Dairy Feed,
Red Horn Lamb Meal,
Red Horn Pig Meal.

Halliday Milling Co., H. L., Cairo, Ill.

Autocrat Mixed Feed,
Excellent Mixed Feed,
Extra Choice Mixed Feed,
Dry Mixed Feed,
Favorite Scratch Feed,
Laying Mash,
Little Chick Feed,
Molasses Meal,
Perfect Mixed Feed,
Popular Mixed Feed,
Red H. Mixed Feed,
Red H. Scratch Feed,
Special Mixed Feed,
Standard Dairy Feed.

Hamlin, Dwight E., Pittsburgh, Pa.

Dried Brewers Grains,
Dried Rye Distillers Grains,
Eureka Chop,
Ground Cocoa Bean Shells,
H. & S. Alfalfa Feed,
H. & S. Alfalfa Feed (For Milch Cows),
H. & S. Horse, Mule & Dairy Feed,
Hamlin's Purekane Molasses Feed,
Hamlin's Quality Poultry Dry Mash,
Hamlin's Quality Feed,
Ohio Valley Dairy Feed,
Ohio Valley Horse Feed,
William Special Feed.

Hancy-Frazier Milling & Elevator Co., Danville, Pa.

Gold Medal Hen Food,
Hen-O-La Mash Food.

Hanks Co., Howard H., Chicago, Ill.

Apollo Horse Feed,
Golden Egg Scratch Feed, no Grit,
Kingfalfa Horse Feed.

Hardesty Milling Co., The, Canal Dover, Ohio.

Bran,
Middlings.

Harding, George L., Binghamton, N. Y.

Harding's Granulated Milk.

Harter Milling Co., The, Toledo, Ohio.

Harter's Cracked Corn,
Harter's Mainspring Mixed Feed with Ground Screenings not exceeding Mill Run,
Harter's Natural White Oats not Purified,
Harter's Pure Corn & Oats Chop,
Harter's Pure Unholsted Corn Meal,
Harter's Pure Winter Wheat Bran,
Harter's Pure Winter Wheat Middlings,
Harter's Pure Winter Wheat Mixed Feed.

Hayden, A., Elizabeth, Pa.

Coarse Meal (Feed Meal),
Pure Corn & Oats Chop,
Pure Winter Bran,
Pure Winter Middlings.

Haywood Alfalfa Warehouse Co., The, Kansas City, Mo.
Algreen Alfalfa Meal.

Hazleton Mercantile Co., Hazleton, Pa.

Corn Chop,
Mixed Chop,
Power City Hen Food,
Rye Mixed Chop,
Star Mixed Feed.

Heacock, Harry G., Orangeville, Pa.

Mixed Chop,
Pure Wheat Bran,
Pure Wheat Middlings.

Hecker-Jones-Jewell Milling Co., Buffalo, N. Y.
 Choice Wheat Bran with Trace of Screenings,
 Fancy White Middlings,
 Mixed Feed with Mill Run Screenings,
 Reddog Flour,
 Standard Middlings with Mill Run Screenings

Heffner Milling Co., Circleville, Ohio.
 Corn Bran,
 Dixie Hen Scratch Grains with Grit,
 Dixie Hen Scratch Grains without Grit,
 Heffner's Stock Food.

Henderson, Supplee & Sons, Conshohocken, Pa.
 Beet Pulp,
 Cottonseed Meal,
 Dried Brewers Grains,
 Gluten.

Hen-E-Ta Bone Co., The, Newark, N. J.
 Hen-O-La Dry Mash.

Highspire Distillery Co., Ltd., The, Highspire, Pa
 Highspire Distillery Feed,

Hirst & Begley Linseed Co., Chicago, Ill.
 Hirst & Begley's Linseed Co.'s Brand Linseed Meal.

H-O Company, The, Buffalo, N. Y.
 The H-O Company's Algrane Horse Feed,
 The H-O Company's Algrane Milk Feed,
 The H-O Company's Algrane Scratching Feed,
 The H-O Company's Chick Feed,
 The H-O Company's Dry Poultry Mash,
 The H-O Company's Horse Feed with Alfalfa,
 The H-O Company's Horse Feed with Molasses,
 The H-O Company's Milk Feed with Molasses,
 The H-O Company's New England Stock Feed,
 The H-O Company's Poultry Feed,
 The H-O Company's Steam Cooked Chick Feed.

Hoffer Flouring Mill Co., John, Steelton, Pa.
 Wheat Bran,
 Wheat Middlings,
 Wheat Shorts.

Hoge & Bro., W. S., Washington, D. C.
 Hoge's Falco Horse Feed,
 Milk Maker Dairy Feed,
 Monogram Horse Feed,
 Omega Horse Feed.

Hogsett & Son, J. F., Uniontown, Pa.
 C Chop.

Hollands & Sons, Stephen, Hornell, N. Y.
 Holland's Dry Mash.

Hoover, G. B., Woodbury, Pa.
 Horse Chop,
 Middlings,
 Mixed Chop.

Hornby & Sons, J. H., New Brighton, Pa.
 Hornby's C. O. & B. Chop Feed.

Hottelet Co., The, Milwaukee, Wis.
 Dried Beet Pulp,
 Hector Distillers Dried Grains,
 Holstein Brewers Dried Grains.

Howard, J. & C., Everett, Pa.
 Corn Chop,
 Corn Meal,
 Corn & Oats Chop,
 Middlings,
 Wheat Bran.

Hubbard Milling Co., Mankato, Minn.
 Buckeye Reddog Flour,
 Fine Standard Middlings,
 Flaky Bran,
 Flour Middlings,
 Sterling Reddog Flour.

Hubinger Brothers Co., J. C., Keokuk, Iowa.
 KKK Corn Gluten Feed.

Hummer, W. F., Milford, N. J.
 Cob Meal,
 Mixed Feed,
 Our Special Corn & Oats Feed.

Humphreys-Godwin Co., Memphis, Tenn.
 Bull Brand Cottonseed Meal,
 Danish Brand Cottonseed Feed,
 Dixie Brand Cottonseed Meal,
 Forfat Brand Cottonseed Meal,
 77 Cottonseed Feed.

Hunter, H., Ashland, Pa.
 O. K. Chick Food,
 O. K. Hen Food.

Hunter-Robinson-Wenz Milling Co., Philadelphia, Pa.
 Capital Hominy,
 Certified Wheat Mixfeed with Ground Screenings not exceeding Mill Run,
 Dreadnought Wheat Bran with Ground Screenings not exceeding Mill Run,
 Huntleigh Wheat Bran with Ground Screenings not exceeding Mill Run,
 Interstate Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Ivory Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Matchless Wheat Mixfeed with Ground Screenings not exceeding Mill Run,
 Repeater Wheat Bran with Ground Screenings not exceeding Mill Run,
 Rustic Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Saxony Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Sunshine Wheat Mixfeed with Ground Screenings not exceeding Mill Run.

Huron Milling Co., The, Harbor Beach, Mich.
 Cottonseed Meal,
 Gluten Feed,
 Jenk's Gluten Feed.

Igleheart Brothers, Evansville, Ind.
 Bran,
 Middlings and Screenings,
 Mixed Feed and Screenings.

Imperial Grain & Milling Co., The, Toledo, Ohio.
 C. O. & B. Feed,
 Imperial Feed Meal,
 No. 1 Chop,
 No. 1 Chop Special,
 Premium Chop,
 Steam Cooked Feed.

Independent Brewing Co., Pittsburgh, Pa.
 Dried Brewers Grains, Chartiers Valley Brewery Branch,
 Dried Brewers Grains, Duquesne Brewery Branch,
 Dried Brewers Grains, First National Brewery Branch,
 Dried Brewers Grains, Homestead Brewery Branch,
 Dried Brewers Grains, Loyalhanna Brewery Branch,
 Dried Brewers Grains, New Kensington Brewery Branch.

Indian Brew Co., Indiana, Pa.
 Brewers Dried Grains.

Industrial Distilling Co., Waterloo, N. Y.
 Columbia Corn Distillers Grains.

International Glue Co., Boston, Mass.
 Red Star Brand Fish Scrap.

International Sugar Feed Co., Minneapolis, Minn.
 International Alfalfa Meal & Molasses,
 International Cattle Feed,

Interuatioual Sugar Feed Co.—Continued.

International Climax Dairy Feed,
 International Climax Hog Feed & Charcoal,
 International Climax Horse Feed,
 International Dairy Feed,
 International Dan Patch Special Horse Feed,
 International Hog Feed and Charcoal,
 International Poultry Feed (Chick),
 International Poultry Feed (Scratch),
 International Special Dairy Feed.

Interstate Feed Association, Detroit, Mich.
 Mormilk Ready Ration Dairy Feed.

Iron City Brewery, Pittsburgh, Pa.
 Dried Brewers Grains.

Jamestown Electric Mills, Jamestown, N. Y.
 Electric Chick Feed,
 Electric Hen Fed,
 Jem Horse Feed,
 Jem Milk Maker,
 Jem Scratch Feed,
 Jem Stock Feed,
 Purity Poultry Mash.

Jennison Co., W. J., Minueapolis, Minn.
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Flour Middlings with Ground Screenings not exceeding Mill Run

Johnson & Son, M. Y., New Berlinville, Pa.
 Johnsou's Poultry Mash.

Johnstown Dry Grains Co., Johnstown, Pa.
 Dried Brewers Grains.

Jones, G. G., Larue, Pa.
 Choice Fine Middlings.

Kam Malting Co., John, Buffalo, N. Y.
 Malt Sprouts.

Kansas Flour Mills Co., The, Kansas City, Mo.
 Mill Run Bran & Screenings,
 Standard Shorts & Wheat Screenings,
 Wheat Bran & Screenings,
 White Middlings & Wheat Screenings,
 White Shorts & Wheat Screenings.

Kaw Milling Co., The, Topeka, Kans.
 Pure White Middlings,
 Wheat Bran and Ground Screenings.

Keck, George A., Allentown, Pa.
 White Middlings.

Keeton & Co., J. P., Atlanta, Ga.
 Big Brand Choice Cottonseed Meal,
 Southern King Brand Prime Cottonseed Meal.

Keever Starch Co., The, Columhus, Ohio.
 Keever Gluten Feed.

Kehlor Flour Mills Co., St. Louis, Mo.
 Illmo Middlings,
 Kehlor's Mill Feed,
 Neptune Middlings,
 Palace Bran,
 Rex Middlings.

Kelloggs & Miller, Amsterdam, N. Y.
 Pure Old Process Oil Meal.

Kellogg & Sons, Inc., Spencer, Buffalo, N. Y.
 Pure Old Process Oil Meal.

Kelly Milling Co., The William, Hutchison, Kans.
 Wheat Bran,
 Wheat Middlings,
 Wheat Mixed Feed.

Kemper Mill & Elevator Co., Kansas City, Mo.
 Anchor Bran with Ground Screenings not exceeding Mill Run,
 Anchor Pure Bran,
 Carnation Gray Middlings,
 Carnation Gray Middlings with Ground Screenings not exceeding Mill Run,
 Crescent Middlings with Ground Screenings not exceeding Mill Run,
 Crescent Mixed Feed with Ground Screenings not exceeding Mill Run,
 Diamond K Soft Wheat Bran.

Kensington Grain Co., Philadelphia, Pa.
 Lu Lu Alfalfa Horse Feed.

Kern & Sons, John B. A., Milwaukee, Wis.
 Eagle Barley Feed,
 Eagle Hominy Feed,
 Eagle Rye Middlings with Ground Screenings not exceeding Mill Run,
 Eagle Wheat Bran with Ground Screenings not exceeding Mill Run,
 Eagle Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
 Eagle Wheat Reddog Flour,
 Eagle Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Kidder & Co., F. L., Paris, Ill.
 Peerless Hominy Feed.

Kidder Flour Mills, R. E., Kansas City, Mo.
 Wheat Bran & Screenings,
 Wheat Shorts & Screenings.

Klander, Est., J. C., Philadelphia, Pa.
 Dried Brewers Grains.

Klingler & Co., H. J., Butler, Pa.
 Jersey Wheat Bran with Ground Screenings not exceeding Mill Run,
 Old Process Linseed Meal,
 Pure Wheat Reddog Flour.

Koch & Co., H. W., Philadelphia, Pa.
 Corno Alfalfa Horse Feed,
 Golden Grain Dairy Feed,
 Oatfalfa Feed,
 Puritan Feed.

Kornfalfa Feed Manufacturing Co., Kansas City, Mo.
 Kawmo Horse & Mule Feed,
 Kay Horse & Mule Feed,
 Kluk Chick Feed,
 Kutter Horse & Mule Feed,
 K. C. Straight Alfalfa Molasses Feed,
 Klimax Horse & Mule Feed,
 Kluk Scratch Feed,
 Kornfalfa Feed,
 Kornfalfa Kandy Feed,
 Pioneer Alfalfa Meal,
 Pippin Horse Feed.

Kratz & Co., H. B., Schwenksville, Pa.
 Ideal Chick Feed,
 Ideal Hen Feed,
 Ideal Mash Feed,
 Ideal Pigeon Feed.

Krause Milling Co., Charles A., Milwaukee, Wis.
 Badger Alfalfa Meal,
 Badger Cream Flakes,
 Badger Dairy Feed,
 Badger Evergreen Feed,
 Badger Fancy Mixed Feed,
 Badger Fancy Middlings,
 Badger Hominy Feed,
 Badger Horse Feed,

Krause Milling Co.—Continued.

Badger Maizo Reddog Flour,
 Badger Stock Feed,
 Blue Top Dairy Feed,
 Blue Top Fine Chick Feed, no Grit,
 Blue Top Fine Chick Feed with Grit,
 Blue Top Horse Feed,
 Blue Top Scratch Feed no Grit,
 Blue Top Scratch Feed with Grit,
 Blue Top Stock Feed,
 Cream City Horse Feed,
 Cream City Scratch Feed with Grit,
 Cream City Scratch Feed no Grit,
 Derby Horse Feed,
 Krause Mash,
 Krause Scratch Feed with Grit,
 Krause Scratch Feed no Grit,
 Pul-Mor Alfalfa Horse Feed.

Kuenzel Mills Co., The, New Bremen, Ohio.

Pure Winter Wheat Bran.
 Pure Winter Wheat Middlings.

Kuhn Brothers & Co., Chicago, Ill

American Horse Feed.

Kunkle Flouring Mills, Rossville, Pa

Corn & Oats Chop,
 Rye, Corn & Oats Chop,
 Wheat Bran,
 Wheat Midds.

La Grange Mills, The, Red Wing, Minn.

Pure Wheat Bran.
 Pure Wheat Middlings with Ground Screenings,
 Pure Wheat Reddog Extra Flour.

Lake Erie Milling Co., The, Tolédo, Ohio.

C. O. & B. Chop,
 Economy Stock Feed,
 Flaked Oats & Corn Chop,
 K. C. Chop,
 Park City Stock Feed,
 Park Corn & Oats Chop,
 Scratch Feed.

Lake of the Woods Milling Co., Ltd., Montreal, Canada.

Wheat Bran.

Lake Shore Elevator Co., The, Cleveland, Ohio.

Big-Squab Pigeon Food,
 Equality Scratch Food, no Grit,
 Golden Calf Meal,
 Golden Chick Food,
 Golden Growing Food,
 Golden Hog Food,
 Golden Laying Mash,
 Gro-Chick Developing Food,
 Hart's Competition Horse Food,
 Hart's Special Dairy Feed,
 Harteno Horse Food,
 Lake Shore Dairy Food,
 Puritan No. 2 Chop Feed,
 Quality Dry Laying Mash,
 Special Scratch Food, no Grit,
 Start-Rite Chick Food,
 Unus Horse & Mule Food.

Landes, J. C., Collegeville, Pa.

Corn Bran,
 Corn Bran Flakes.

Lanier Brothers, Nashville, Tenn.

Canary Brand Cottonseed Meal,
 Holstein Cottonseed Feed,
 Jersey Brand Cottonseed Meal.

Larabee Flour Mills Co., The, Hutchison, Kans.

Standard Wheat Shorts,
Wheat Bran with Mill Run Screenings not to exceed 8 per cent,
Wheat Mixed Feed, Wheat Bran & Wheat Shorts with Mill Run Screenings
not to exceed 8 per cent.

Large Distilling Co., The, Pittsburgh, Pa.
Distilling Rye Grains.

Larrowe Milling Co., The, Detroit, Mich.
Brownie Dried Grains,
Dried Beet Pulp,
Dried Beet Pulp & Molasses,
Larro-Feed,
Larro-Mash,
Log Cabin Horse Feed,
Log Cabin Poultry Scratch Feed,
Mingo Mixed Feed,
Staff Brand Cottonseed Meal,
Wheat Bran.

Laudenslager, M. M., Macungie, Pa.
Corn Chop,
Middlings,
Mixed Chop,
Rye Middlings,
Wheat Bran.

Lawrenceburg Roller Mills Co., Lawrenceburg, Ind.
Golden Bull Bran,
Golden Bull Middlings,
Golden Bull Mixed Feed,
Snowflake Bran,
Snowflake Middlings,
Snowflake Mixed Feed.

Lebanon Milling Co., Lebanon, Pa.
C. & O. Chop.

Le Bar, Frank, Stroudsburg, Pa.
Dairy Feed,
Mixed Feed,
Scratch Grain.

Lee Co., George H., Omaha, Neb.
Lee's Egg Maker.

Lee-Warren Mfg. Co., The, Salina, Kans.
Fancy White Wheat Middlings,
Wheat Bran & Screenings,
Wheat Shorts.

Levan & Sons, Columbia, Pa.
L. & S.. Chick Feed,
L. & S. Hen Feed,
L. & S. Poultry Mash.

Lidgerwood Mill Co., Lidgerwood, N. D.
Pure Wheat Bran,
Pure Wheat Middlings.

Listman Mill Co., LaCrosse, Wis.
Elmco Bran,
Elmco Mixed Feed,
Elmco Reddog Flour,
Elmco Std. Midds.,
Elmco White Midds.

Little Giant Stock Food Co., Newark, N. J.
Little Giant Stock Food Tonic.

Lock Two Grain & Milling Co., New Bremen, Ohio.
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

London Mill Co., London, Ohio.
Wheat Bran-Corn Bran.

Long, W. H., Howard, Pa.

Crushed Feed,
Poultry Food Mash,
Poultry Food Scratch,
Standard Chop.

Loudonville Mill & Grain Co., The, Loudonville, Ohio.

Loudonville Bran,
Loudonville Middlings.

Loughrey Bros. Milling & Grain Co., Monticello, Ind.

Loughrey's Buckwheat Feed,
Loughrey's Corn & Oats Chop,
Loughrey's Mixed Feed with Screenings not exceeding Mill Run,
Loughrey's Wheat Middlings & Screenings.

Lovitt & Co., L. B., Memphis, Tenn.

Lovitt Brand Cottonseed Meal.

Lukenbach, D. & A., Bethlehem, Pa.

Horse Chop,
Mixed Chop.

Luxemburg Milling Co., Luxemburg, Wis.

Rye Feed.

McCague, R. S., Pittsburgh, Pa.

Diamond Scratch Feed no Grit,
Diamond Scratch Feed with Grit.

McCall's Sons, Frank, Chester, Pa.

McCall's Special Horse Feed.

McInnis, M. M., Meridian, Miss.

Yellow Jassamine Brand Cottonseed Meal.

McMurtrie Milling Co., Belvidere, N. J.

Corn Ear Meal,
Horse Feed.

McDonald, J. M., Cincinnati, Ohio.

Avon Cottonseed Meal,
Kineda Gluten Feed,
Kineda Prime Cottonseed Meal,
Macado Cottonseed Meal.

Maney Milling Co., Omaha, Neb.

Pure Wheat Shorts,
Wheat Bran with Ground Screenings not exceeding Mill Run.

Mann & Allshouse, Easton, Pa.

Chick Food,
Ground Mixed Food,
Mixed Grains,
Poultry Mash,
Rye Bran,
Rye Middlings,
Wheat Bran,
Wheat Middlings.

Mann Brothers Co., The, Buffalo, N. Y.

Old Process Linseed Oil Meal.

Mansfield Milling Co., Mansfield, Ohio.

Triangle Wheat Bran with Ground Screenings not exceeding Mill Run,
Triangle Wheat Middlings with Ground Screenings not exceeding Mill Run.

Marshall Milling Co., Marshall, Minn.

Bran with Mill Run of Screenings,
Reddog Flour,
Wheat Shorts with Mill Run of Screenings,
White Middlings.

Martin & Co., Altoona, Pa.

Corn and Oat Chop,
Martin's Chicken Feed,
Martin's Poultry Mash,
Martin's Scratch Feed,
Rye and Oats.

Masontown Brewing Co., Masontown, Pa.
Brewers Dried Grains.

Matthews & Sons, Inc., C. P., Scranton, Pa
Best Mixed Grain for Chickens,
Best Mixed Feed for Cows,
Best Mixed Feed for Horses,
Chicken Feed,
Mixed Feed,
Poultry Mash.

Mathers Brothers, Greenville, Pa.
Bran,
Chick Feed,
Corn and Oats Chop,
Buckwheat Middlings,
Corn Meal,
Cracked Corn,
Middlings,
Scratch Feed.

Mauser & Cressman, Catasauqua, Pa
Chick Feed,
Mixed Chop,
Poultry Mash,
Rye Bran & Middlings,
Scratch Feed,
Wheat Bran,
Wheat Middlings.

Mauser Mill Co., Treichlers, Pa.
Chick Feed,
Corn & Oats Chop,
Dry Mash,
Hazleton Dairy Feed,
Hen Feed,
Mix Chop,
Horse Feed,
Pure Wheat Bran,
Red Star Mixed Chop,
Wheat & Rye Red Middlings,
Wheat & Rye White Middlings.

Mayflower Mills, Fort Wayne, Ind.
Mayflower Bran,
Mayflower Middlings,
Mayflower Reddog Flour.

Melrose Milling Co., Melrose, Minn.
Middlings,
Pure Fancy Bran.

Memphis Cotton Hull & Fibre Co., Memphis, Tenn
Cyclone Cottonseed Feed.

Meridian Grain & Elevator Co., Meridian, Miss.
Tip Top Choice Cottonseed Meal,
Tip Top Prime Cottonseed Meal.

Metzgar Seed & Oil Co., The, Toledo, Ohio.
Old Process Oil Meal.

Meyer Malting Co., George J., Buffalo, N. Y.
Malt Sprouts.

Midland Linseed Products Co., Minneapolis, Minn.
Midland Brand Pure Old Process Ground Linseed Cake.

Millard & Scureman, Kingston, Pa.
Hen Food,
Red Feather Feed.

Millbourne Mills, Philadelphia, Pa.
Pure Wheat Bran,
Pure Wheat Middlings.

Mills of Albert Lea, Albert Lea, Minn.
Albert Lea Bran,
Albert Lea Flour,

Miller & Son, J. B., New Danville, Pa.
Miller's Poultry Mash.

Miller, Z., Enola, Pa.
Miller's Stock Food.

Milwaukee Grains & Feed Co., Milwaukee, Wis.
Crown Dried Brewers Grains.

Miner-Hillard Milling Co., Wilkes-Barre, Pa.
Colonial Middlings,
F. O. Feed,
Little Chick Feed,
Corn Meal,
Mihimico Dairy Feed,
Mihimico Stock Feed,
Mixed Chicken Feed,
Mixed Scratch Feed,
No. 1 Chop,
No. 1 Scratch Feed,
Poultry Mash,
Special Scratch Feed,
Steam Cooked Flakeline,
Steam Cooked Hominy Feed,
Mixed Chop.

Moffat, Henry C., Buffalo, N. Y.
Malt Sprouts,

Montgomery & Co., C. L., Memphis, Tenn.
Canary Brand Cottonseed Meal,
Canary Extra Brand Cottonseed Meal,
Eagle Brand Cottonseed Meal.

Morris & Company, Chicago, Ill.
Big Brand Meat Meal,
Big Brand Meat Scraps,
Big Forty Meat Meal Digester Tankage,
Big Sixty Meat Meal Digester Tankage.

Moseley & Motely Milling Co., Rochester, N. Y.
Big B Choice Wheat Bran,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Moyer & Son, Souderton, Pa.
Mixed Chop for Horses,
Puritan Poultry Mash,
Specialty Poultry Mash.

Mount Holly Feed & Grain Co., The, Mount Holly, Pa.
Holly-O Pure Cane Molasses Concentrated Dairy Feed,
Holly-O Pure Cane Molasses Dairy Feed No. 1.
Holly-O Pure Cane Molasses Dairy Feed No. 2,
Holly-O Pure Cane Molasses Swine Feed,
Holly-O Pure Cane Molasses Horse & Mule Feed.
Pure Calf Meal,
Pure Dry Mash Poultry Feed.

Myers, Thomas W., Lewistown, Pa.
Corn Chop B. Grade,
Corn Chop C. Grade,
Pure Corn Chop A. Grade,
Pure Corn & Oats Chop,
Pure Oats Chop,
Pure Rye Chop,
Pure Wheat Chop.

Mystic Milling & Feed Co., Rochester, N. Y.
Mystic Growing Mash,
Mystic Laying Mash.

National Feed Co., St. Louis, Mo.
Prime Cottonseed Meal,
Pure Alfalfa Meal,
Pure Hominy Feed,
Reground Oat Hulls,
Wheat Bran with Screenings not exceeding Mill Run,
Wheat Bran & Midds. with Screenings not exceeding Mill Run,
Wheat Middlings with Screenings not exceeding Mill Run.

National Feed Mills Co., The, Yellow Springs, Pa.

Blue Hen Feed with Grit,
 Blue Hen Feed without Grit,
 Golden Chick Feed,
 Golden Hen Feed,
 Golden Mash Feed,
 Silver Chick Feed with Grit,
 Silver Hen with Grit,
 Silver Hen without Grit.

National Oats Co., St. Louis, Mo.

Alasco Sweet Meal,
 Corno Chick Feed,
 Corno Dairy Feed,
 Corno Hen Feed,
 Corno Horse & Mule Feed,
 Corno Stock Feed,
 Corno Sweet Feed,
 Diamond "C" Hen Feed with Grit,
 Diamond "C" Sweet Feed,
 Navajo Chick Feed,
 Navajo Feed,
 Navajo Hen Feed,
 Navajo Sweet Feed,
 Noeo Chick Feed,
 Noco Hen Feed,
 Noco Horse & Mule Feed,
 Noeo Stock Feed,
 Noeo Sweet Feed,
 Nuco Dairy Feed,
 Nuco Hen Feed with Grit,
 Nutro Chick Feed,
 Nutro Dry Cow Feed,
 Nutro Dry Horse Feed,
 Nutro Hen Feed,
 Nutro Sweet Cow Feed,
 Nutro Sweet Feed,
 Nutro Sweet Horse Feed,
 Pawnee Chick Feed,
 Pawnee Dry Cow Feed,
 Pawnee Dry Horse Feed,
 Pawnee Feed,
 Pawnee Hen Feed,
 Pawnee Sweet Cow Feed,
 Pawnee Sweet Feed,
 Pawnee Sweet Horse Feed.

Neumond, K. & E., St. Louis, Mo.

Anheuser-Busch Brewers Dried Grains,
 Goldness Kalb Brewers Dried Grains.

New Oxford Pure Feed Co., The, New Oxford, Pa.

Pure Calf Meal,
 Pure Cane Molasses Dairy Feed No. 1,
 Pure Cane Molasses Dairy Feed No. 2,
 Pure Cane Molasses Concentrated Dairy Feed,
 Pure Cane Molasses Horse & Mule Feed,
 Pure Cane Molasses Swine Feed,
 Pure Dry Mash Poultry Feed.

New Prague Flouring Mill Co., New Prague, Minn.

Seal of Minnesota Bran with Ground Screenings not exceeding Mill Run,
 Seal of Minnesota Flour Midds.,
 Seal of Minnesota Germ Midds.,
 Seal of Minnesota Low Grade Flour,
 Seal of Minnesota Special Midds.,
 Seal of Minnesota Standard Midds.

Newsome Feed & Grain Co., The, Pittsburgh, Pa.

Newfield Cream Klakes,
 Newfield Dairy Feed,
 Newfield Evergreen Feed,
 Newfield Fancy Middlings,
 Newfield Fancy Mixed Feed,
 Newfield Hominy Feed,
 Newfield Horse Feed,

Newsome Feed & Grain Co.—Continued.

Newfield Stock Feed,
Palmo Midds.,
Special Palmo Midds.

New Ulm Roller Mill Co., New Ulm, Minn.

Ground Corn and Oats,
Hominy Feed,
Rye Feed,
Wheat Bran,
Wheat Middlings.

Niagara Falls Milling Co., Buffalo, N. Y.

Choice Wheat Bran,
Choice Wheat Flour Middlings,
Choice Wheat Low Grade Flour,
Choice Wheat Middlings.

Nickel Plate Elevator Co., Cleveland, Ohio

Alfalfa Molasses Horse Feed,
Economy Chick Feed,
Economy Chick with Grit,
Economy Chop Feed,
Economy Digester Tankage,
Economy Mash Feed,
Economy Molasses Horse Feed,
Economy Meat Scraps,
Economy Pigeon Feed,
Economy Scratch Feed,
Economy Scratch with Grit,
Imperial Chick Feed,
Imperial Growing Feed,
Imperial Molasses Horse Feed,
Imperial Pigeon Feed,
Imperial Scratch Feed,
Special Imperial Scratch Feed,
Yellow Corn Siftings.

Nickel Plate Flour Mills, Erie, Pa.

Poultry Mash.

Noblesville Milling Co., Noblesville, Ind.

N. M. Co.'s Middlings,
N. M. Co.'s Mixed Feed,
N. M. Co.'s Wheat Bran & Screenings.

Norton & Co., Willis, Topeka, Kans.

Bran & Screenings,
Shorts & Screenings.

Northwestern Consolidated Milling Co., The, Minneapolis, Minn.

Planet Feed,
Pure Wheat Bran,
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed composed of Wheat Bran, Flour Middlings and Ground
Screenings not exceeding Mill Run,
XXX Comet Reddog Flour.

Northwestern Elevator & Mill Co., The, Toledo, Ohio.

Taylor's Bran,
Taylor's Middlings.

Northwestern Milling Co., Little Falls, Minn.

Bran,
Fancy Midds.,
Flour Midds.,
Low Grade Flour,
Mixed Feed.

North Star Feed & Cereal Co., Minneapolis, Minn.

Rye Middlings.

Northwestern Yeast Co., Chicago, Ill.

Corn Bran,
Rye Feed.

Northern, W. C., Little Rock, Ark.

Bee Brand Cottonseed Meal,
Butterfly Brand Cottonseed Meal.

Nowak Milling Corporation, Buffalo, N. Y.

Domino Butterine Dairy Feed,
Domino Cream-O-Lene Dairy Ration,
Domino Alfalfa Meal,
Domino Calf Meal,
Domino Justice Creamery Feed,
Domino Justice Chick Feed,
Domino Justice Developing Feed,
Domino Justice Growing Mash,
Domino Justice Laying Mash,
Domino Justice Pigeon Feed,
Domino Justice Scratch Feed,
Domino Milk Maker Dairy Feed,
Domino Pure-Mo-Lene Horse Feed with Alfalfa,
Domino Stock Feed,
Domino Vim-O-Lene Horse Feed.
Fidelity Horse Feed,
Fidelity Stock Feed,
Justice Stock Feed,
Lay-Egg-O Dry Mash,
Marathon Scratch Feed,
Union Dairy Feed.

Oil Seeds Co., New York, N. Y.

Alpha Brand Peanut Oil Meal,
Beta Brand Peanut Oil Meal,
Coco Brand Cocoanut Oil Meal.

O. K. Company, The, New York, N. Y.
Puritan Chick Food.

Omaha Alfalfa Milling Co.; Omaha, Nebr.

Al-Corn-O Horse Feed,
Alfalfa Meal,
Alfalfa Syr. Feed,
Alfalmo Feed,
Evergreen Horse Feed,
Green Meadow Dairy Feed,
Peerless Alfalmo Horse Feed,
Perfection Horse Feed.

Osakis Milling Co., Osakis, Minn.

Osakis Bran,
Osakis Middlings.

Osceola Mill & Elevator Co., Osceola, Wis.
Rye Middlings.

Owen Co., The D. H., Youngstown, Ohio.

Challenge Dairy Feed,
Challenge Fancy Middlings,
Challenge Horse Feed,
Challenge Stock Feed,
Silver Fancy White Hominy Feed.

Park & Pollard Co., The, Boston, Mass.

Alfalfa,
Baby Buster Chick Feed,
Blue Ribbon Meat Scraps,
Fattening Feed,
Growing Feed,
Intermediate Chick Feed,
Lay or Bust Dry Mash,
Margaret Mahaney's Turkey Feed,
Overall Chick Feed.
Overall Corn $\frac{1}{2}$ and $\frac{1}{2}$ Oats,
Overall Fish Scraps,
Overall Pigeon Feed,
Park & Pollard Co. Calf Meal,
Park & Pollard Co. Horse Feed.

Park & Pollard Co.—Continued.

Park & Pollard Co. Oswego Meal,
Pontiac Scratch Feed,
Red Ribbon Chick Feed,
Red Ribbon Scratch Feed,
Screened Scratch Feed,
Steven's Dairy Ration.

Patent Cereal Co., The, Geneva, N. Y.
Hominy Feed.

Patterson & Co., G. E., Memphis, Tenn.

Alfa-Cane Stock Feed,
Alfamation Horse Feed,
Apex Stock,
Crown Horse Feed,
Jupiter Stock Feed,
Katleat Dairy Food,
Novo Dairy Feed,
Rex Horse Feed,
Sugaration Stock Feed.

Patterson Milling Co., Saltsburg, Pa.

Wheat Bran,
Wheat Middlings.

Penn Grains & Feed Co., Philadelphia, Pa.

Malt Sprouts,
Peerless & Penngrains Brewers Dried Grains.

Penwick Distillery, The, Cheswick, Pa.
Distillers Dried Grains.

Perot's Sons Malting Co., The Francis, Philadelphia, Pa.
Malt Sprouts.

Peters Mill Co., M. C., Omaha, Nebr.
Peter's Alfalfa Queen Mills Dairy Feed,
Peter's Alfalfa Molasses Feed,
Peter's Arab Horse Feed,
Peter's Corn Feed Meal,
Peter's June Pasture,
Peter's King Corn,
Peter's Lucern Alfalfa Meal,
Peter's Rabbit Mule Feed,
Peter's Red Feather Chick Feed,
Peter's Red Feather Poultry Mash,
Peter's High Score Alfalfa Molasses Feed,
Peter's Re-Peter Horse Feed.

Pfeffer Milling Co., Lebanon, Ill.

Pfeffer's Corn Bran,
Pfeffer's Hominy Feed,
Pfeffer's Wheat Bran,
Pfeffer's Wheat Middlings with Ground Screenings not exceeding Mill Run.

Phelps & Sibley Co., Cuba, N. Y.

Favorite Poultry Mash,
P. & S. White Feed,
P. & S. Yellow Feed,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run,
Yellow Corn Feed Meal.

Philadelphia Seed Co., Inc., Philadelphia, Pa.

N. A. Egg Competition Fish Mash Feed,
N. A. Egg Competition Scratch Feed,
Purgrain Chick Developing Mash,
Purgrain Chick Developer No. 1,
Purgrain Chick Developer No. 2,
Purgrain Chick Starter No. 1,
Purgrain Chick Starter No. 2,
Purgrain Laying Mash,
Purgrain Pigeon Feed,
Purgrain Poultry Feed No. 1,

Philadelphia Seed Co., Inc.—Continued.

Purgrain Poultry Feed No. 2,
Special Fanciers Pigeon Feed No. 1,
Special Fanciers Pigeon Feed No. 2,
Special Fanciers Pigeon Feed No. 3,
Special Fanciers Pigeon Feed No. 4.

Philipsburg Milling, Lighting & Heating Co., Philipsburg, Pa.

Mixed Chop,
No. 1 Oats and Rye Chop,
Pure Corn Chop.

Phoenix Mill Co., Minneapolis, Minn.

Reddog Flour,
Wheat Bran with Ground Screenings not to exceed Mill Run,
Wheat Flour Middlings with Ground Screenings not to exceed Mill Run,
Wheat Standard Middlings with Ground Screenings not to exceed Mill Run

Piel Brothers Starch Co., Indianapolis, Ind.

P. Bro. Corn Gluten Feed.

Pierce Milling Co., Pierce, Nebr.

Pure Wheat Bran,
Pure Wheat Shorts.

Pillsbury Flour Mills Co., Minneapolis, Minn.

Pillsbury's Durum Wheat Bran with Ground Screenings not exceeding Mill Run,
Pillsbury's Durum Wheat "B" Middlings with Ground Screenings not exceeding Mill Run,
Pillsbury's Fancy Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
Pillsbury's Wheat "A" Middlings with Ground Screenings not exceeding Mill Run,
Pillsbury's Wheat with Ground Screenings not exceeding Mill Run,
Pillsbury's Wheat Standard Middlings (B) with Ground Screenings not exceeding Mill Run,
Pillsbury's XX Daisy.

Pine Level Mill Co., The, Pine Level, N. C.

Xantho Cottonseed Meal.

Pinkerton, H. W., N. S., Pittsburgh, Pa.

Eggo Dry Mash.

Piqua Milling Co., The, Piqua, Ohio.

Wheat Bran,
Wheat Middlings.

Pittsburgh Provision & Packing Co., Pittsburgh, Pa.

Beef Meal,
Beef Scrap,
Dried Blood,
Meat Meal,
Poultry Bone.

Plant Milling Co., George P., St. Louis, Mo.

"P" Wheat Bran with Screenings not exceeding Mill Run,
"P" Wheat Middlings with Screenings not exceeding Mill Run,
"P" Wheat Mixed Feed Screenings not exceeding Mill Run.

Pottsville Feed Co., Pottsville, Pa.

Dried Brewers Grains.

Prairie State Milling Co., Chicago, Ill.

Emerald Horse Feed,
Garland Chick Feed with Grit,
Garland Chick Feed no Grit,
Garland Scratch Feed with Grit,
Garland Scratch Feed no Grit,
Greenfield Alfalfa & Molasses Feed,
Prairie State Alfalfa Meal,
Prairie State Chick Feed, Coarse, with Grit,
Prairie State Chick Feed, with Grit,
Prairie State Chick Feed, no Grit,
Prairie State Chop Feed,
Prairie State Pigeon Feed,
Prairie State Poultry Mash,
Prairie State Scratch Feed with Grit,
Prairie State Scratch Feed no Grit,

Pratt Food Co., Philadelphia, Pa.
Pratt's Baby Chick Food.

Preston & Jacquish, Troy, Pa.
Corn and Oats Chop,
Dry Mash,
Scratch Feed.

Prince Edward Squab Co., Rice, Va.
Mixed Pigeon Feed,
Prince Edward "A" Brand Pigeon Feed

Purity Oats Co., Davenport, Iowa.
Iowa Chick Feed with Grit,
Iowa Chick Feed no Grit,
Iowa Dairy Feed,
Iowa Horse Feed,
Iowa Scratch Feed with Grit,
Iowa Scratch Feed no Grit,
Iowa Stock Feed,
Purity Reground Oat Hulls,
Scattergood Chick Feed with Grit,
Scattergood Chick Feed no Grit,
Scattergood Dairy Feed,
Scattergood Horse Feed,
Scattergood Scratch Feed with Grit,
Scattergood Scratch Feed no Grit,
Scattergood Stock Feed,
Tom Boy Chick Feed,
Tom Boy Scratch Feed,
Tom Boy Stock Feed.

Quaker City Flour Mills Co., Philadelphia, Pa.
Spring Wheat Bran with Ground Screenings not exceeding Mill Run,
Spring Wheat Middlings with Ground Screenings not exceeding Mill Run.
Winter Wheat Bran with Ground Screenings not exceeding Mill Run,
Winter Wheat Middlings with Ground Screenings not exceeding Mill Run.

Quaker City Manufacturing Co., Philadelphia, Pa.
Quaker City Brand Beef Scraps,
Quaker City Quality Brand Meat & Bone Scraps,
Quaker City Special Brand Meat & Bone Scraps.

Quaker Oats Co., The, Chicago, Ill.
American Hen Scratch Grains,
American Poultry Food,
Big Egg Scratch Grains,
Blue Ribbon Scratch Grains,
Boss Feed,
Buckeye Feed,
C. O. & B. Feed,
Early Bird Scratch Grains,
Excelsior Feed,
Green Cross Horse Molasses Mixed Feed,
Pansy Scratch Grains with Grit,
Pansy Scratch Grains without Grit
Quaker Scratch Grains,
Schumacher Calf Meal,
Schumacher Feed,
Schumacher Scratch Grains,
Schumacher Special Horse Feed,
Sterling Feed,
Sterling Horse Feed,
Sterling Scratch Feed,
Victor Feed,
White Diamond Feed,
Yellow Hominy Feed.

Rachau, J. L., Clintondale, Pa.
Corn and Oats Chop,
Hen Food,
Mixed Chop,
Pure Corn Chop,
Wheat Bran,
Wheat Middlings.

Ralston Purina Co., St. Louis, Mo.

Biddy Chick Feed,
 Biddy Scratch Feed,
 Feed Well Chick Feed,
 Feed Well Scratch Feed,
 Good Luck Chick Feed,
 Good Luck Feed with Molasses,
 Good Luck Scratch Feed,
 O. K. Feed with Molasses,
 Peck's Mule Feed with Molasses,
 Protana Dairy Feed,
 Purina Alfalfa Meal,
 Purina Calf Meal,
 Purina Chick Feed,
 Purina Chicken Chowder Feed with Charcoal, not over 1 per cent.,
 Purina Cow Feed,
 Purina Dairy Feed,
 Purina Feed (Dustless),
 Purina Feed with Molasses,
 Purina O'Molene Horse Feed,
 Purina Pigeon Feed,
 Purina Scratch Feed,
 Purina Sweet Feed,
 Regal Chick Feed,
 Regal Scratch Feed,
 Star Chick Feed,
 Star Feed with Molasses,
 Star Scratch Feed,
 Success Chick Feed,
 Success Scratch Feed,
 Winner Chick Feed,
 Winner Scratch Feed,
 XX Good Feed with Molasses.

Ramsey, J. D., Pittsburgh, Pa.

Ramsey's Meat Meal.

Rankin & Co., M. C., Milwaukee, Wis.

Cottonseed Meal,
 Derby Horse Feed,
 Dried Brewers Grains,
 Jersey Dairy Feed,
 Jersey Fancy Middlings,
 Jersey Fancy Mixed Feed,
 Jersey Hominy Feed,
 Jersey Horse and Mule Feed,
 Rye Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run,
 Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Wheat Reddog Flour.

Raub & Sons Animal Feed Co., E., Indianapolis, Ind.

Raub's Digester Tankage,
 Raub's Meat Scraps.

Rawleigh Medical Co., The W. T., Freeport, Ill.

Rawleigh's Poultry Powder,
 Rawleigh's Stock Tonic.

Red River Milling Co., Fergus Falls, Minn.

Bran,
 Standard Middlings.

Red Star Mill & Elevator Co., Wichita, Kans.

Wheat Bran and Screenings,
 Wheat Mixed Feed and Screenings,
 Wheat Shorts and Screenings.

Red Wing Linseed Co., Red Wing, Minn.

Red Wing Brand Ground Oil Cake.

Red Wing Milling Co., Red Wing, Minn.

Bixota Bran Flour with Ground Screenings not exceeding Mill Run,
 Bixota Flour Middlings,
 Bixota Reddog Flour,
 Bixota Standard Middlings.

Reece & Greenly, Millville, Pa.
Buckwheat Feed.

Reichard, Robert A., Allentown, Pa..
Beef Granules,
Beef Meal,
Blood Meal,
Bone Granules,
Bone Meal,
High Grade Beef Scrap,
Standard Beef Scrap,
40 per cent. Digester Tankage,
60 per cent. Digester Tankage.

Replogle, U. E., Woodbury, Pa.
Buckwheat Midds.,
Horse Chop,
Mixed Chop,
Pure Bran,
Pure Rye Middlings,
Pure Shelled Corn,
Pure Wheat Middlings.

Richards & Evans, Cortland, Ohio.
Bran with Ground Screenings not exceeding Mill Run,
Cottonseed Meal,
Hominy,
Middlings with Ground Screenings not exceeding Mill Run,
Oil Meal.

Robin Hood Mills, Ltd., Moose Jaw, Sask., Canada.
Bran,
Germ Midds.,
Reddog Flour,
Robin Hood Oat Feed,
Standard Midds.

Robinson, Jr., George B., New York, N. Y.
Cottonseed Meal,
Hominy Feed,
Linseed Oil Meal,
Robin Brand Cottonseed Meal.

Rockwell, G. G., North Baltimore, Ohio.
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Rodgers, John T., McVeytown, Pa.
Bran,
Corn Chop,
Corn & Oats Chop,
Middlings,
Mixed Feed, Bran and Midds.

Rosekrans-Snyder & Co., Philadelphia, Pa.
Brewers Dried Grains,
Hominy,
Jenk's Gluten,
Pilsner Brewers Dried Grains,
White Corn Bran.

Roux, J. B., Farrell, Pa.
Palm Oil Middlings.

Royal Milling Co., Great Falls, Mont.
Bran,
Mixed Feed,
Standard Middlings,

Russell-Miller Milling Co., Minneapolis, Minn.
Bran,
Flour Middlings,
Occident Wheat Feed,
Reddog Flour,
Standard Middlings,

Russia Cement Co., Gloucester, Mass.
Chik-Chuk (Fish Meal).

Ryde & Company, Chicago, Ill.
Ryde's Cream Calf Meal.

Ryder, J. O., Lock Haven, Pa.
Cackle Brand Meat Scraps.

Saeger Milling Co., Allentown, Pa.
Hanover Scratch Feed,
Mixed Chop,
Pure Wheat Bran,
Pure Wheat Middlings.

Saginaw Milling Co., Saginaw, Mich.
Ogemaw A. A. Pigeon Feed,
Red Hen Chick Starter,
Red Hen Dry Mash,
Red Hen Scratch Feed,
Wheat Bran,
Wheat Middlings,
Wolverine Scratch Feed,

Saxony Mills, St. Louis, Mo.
Mixed Feed with Ground Screenings not exceeding Mill Run.
No. 1 Brown Wheat Middlings,
Wheat Bran with Ground Screenings not exceeding Mill Run.

Scarlett & Co., William G., Baltimore, Md.
Oriole Brand AA Pigeon Feed,
Oriole Brand AAA Pigeon Feed,
Oriole Brand Beef Scraps,
Oriole Brand Chick Developer,
Oriole Brand Chick Starter,
Oriole Brand Dry Mash,
Oriole Brand Growing Mash,
Oriole Brand Meat Meal,
Oriole Brand Scratch Feed,
Oriole Brand Special Pigeon Feed.

Scattergood & Co., S. F., Philadelphia, Pa.
Corneline Corn Feed,
Scattergood Golden Grains.

Schlitz Brewing Co., Joseph, Milwaukee, Wis.
Schlitz Purity Dried Grains.

Schmidt & Walker Co., The, Cincinnati, Ohio.
Snow King Hominy Feed

Schmucker, C. E., Watsonstown, Pa.
Cracker Jack Dairy Feed,
Complete Dairy Feed,
Schmucker's Stock Feed,
Special Dairy Feed.

Schneider Brothers Co., Mount Carmel, Pa.
Golden Brand Chick Feed,
Golden Brand Hen Feed,
Golden Brand Mash Feed.

Schooley & Son, H. N., Luzerne, Pa.
No. 1 Mixed Chop,
No. 2 Mixed Chop,
Scratch Feed.

Scobie & Parker Co., Pittsburgh, Pa.
Premier Fine Chick with Grit,
Premier Scratch Feed with Grit,
Premier Scratch no Grit.

Scott County Milling Co., The, Sikeston, Mo.
Corn Bran,
Mill Run Bran,
Pure Corn Chops,
Pure Wheat Bran,
Pure Wheat Shorts.

Scott Logan Milling Co., Sheldon, Iowa.
Bran,
Reddog Flour,
Shorts.

Seneca Milling & Elevator Co., Seneca, Mo.
Pure Corn Chops.

Servus Milling Co., Mankato, Minn.
Flaky Bran with Ground Screenings not exceeding Mill Run,
Fine Standard Middlings with Ground Screenings not exceeding Mill Run,
Sterling Reddog Flour,
White Flour Middlings.

Shane Brothers & Wilson Co., Minneapolis, Minn.
C. D. M. Wheat White Middlings with Ground Screenings not exceeding
Mill Run,
Clover Leaf Wheat Bran,
Reddog Flour,
Snowball Wheat White Middlings with Ground Screenings not exceeding Mill
Run,
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Sharpless, C. H., Bloomsburg, Pa.
Henola Mash Feed,
Henola Scratch Feed.

Sheffield-King Milling Co., Minneapolis, Minn.
Fairytow Middlings and Pulverized Wheat Screenings,
Fancy Brodflake Bran with Ground Screenings,
Gold Mine Feed.
Low Grade Flour,
Whitehope Middlings and Pulverized Wheat Screenings.

Shellabarger Mill & Elevator Co., Salina, Kans.
Standard Wheat Shorts,
Wheat Bran & Screenings,
Wheat Brown Shorts and Screenings,
Wheat Mixed Feed and Screenings.

Shelly, H. S., Allentown, Pa.
Pure Wheat Bran,
Pure Wheat Middlings,
Standard Middlings Mill Run Screenings,
Wheat Bran Mill Run Screenings,
Wheat Middlings Mill Run Screenings.

Shepard, Clark & Co., Cleveland, Ohio.
Cocoanut Oil Cake Meal.

Sherwin-Williams Co., Cleveland, Ohio.
S. W. C. Linseed Oil Meal.

Shmidheiser & Co., Godfrey, Philadelphia, Pa.
S. & S. Horse Feed,
S. & S. Molasses Horse Feed,
S. & S. Soft Feed.

Shoemaker & Co., M. L., Ltd., Philadelphia, Pa.
Ground Beef Scraps.

Shredded Wheat Co., Niagara Falls, N. Y.
Shredded Wheat Waste,
Wheat Screenings.

Shute & Co., E. L. Philadelphia, Pa.
Apollo Horse Feed,
Molasco Sweet Feed,
Pippin Horse Feed.

Siegel, George L., Erie, Pa.
Government Mash.

Simison, D. D., Volant, Pa.
Mixed Chop,
Wheat Bran,
Wheat Middlings.

Simpson Co., The W. A., Baltimore, Md.
Champion Chick Feed,
Champion Chick Starter,
Champion Scratch Feed,
Meat and Bone Meal,
Meat and Bone Scraps.

- Smith, Hoke, Hanover, Pa.**
Champion Horse and Mule Feed.
- Smith & Co., J. W., Pittsburgh, Pa.**
Ft. Pitt Heavy Grain Alfalfa Horse Feed.
- Smith, W. Newton, Baltimore, Md.**
Baltimore Brand Cottonseed Meal,
Dirigo Brand Cottonseed Feed.
- Snyder & Co., C. U., Chicago, Ill.**
Kleinco Brewers Dried Grains,
Kleinco Malt Sprouts.
- Soper Co., J. E., Boston, Mass.**
Blue Ribbon Hominy Chop,
Pilgrim Cottonseed Meal,
Pioneer Cottonseed Meal.
- Southern Cotton Oil Co., The, Charlotte, N. C.**
Aurora Cottonseed Meal,
Bonita Cottonseed Meal,
Boveta Cottonseed Hull and Meal Mixture,
Gold Seal Cottonseed Meal,
Piedmont Cottonseed Hull and Meal Mixture,
Soco Cottonseed Feed.
- Southwestern Milling Co., The, Kansas City, Mo.**
Pure Fancy White Middlings,
Pure Gray Shorts,
Pure Mill Run Bran,
Pure Mixed Feed,
Pure Wheat Bran,
Pure Wheat Brown Shorts.
- Sparks Milling Co., Alton, Ill.**
Try Me Mixed Feed.
- Spratt Patent Ltd., Newark, N. J.**
Spratt's Bantam Food No. 4,
Spratt's Calf Meal,
Spratt's Chick Grain No. 1,
Spratt's Chick Meal No. 5,
Spratt's Crissel,
Spratt's Developing Food No. 5
Spratt's Egg Mash Food No. 4,
Spratt's Ground Meat,
Spratt's Growing Mash Food No. 3,
Spratt's Incubator or Baby Chick Meal No. 12,
Spratt's Pigeon Food No. 4,
Spratt's Pigeon Food No. 5,
Spratt's Pheasant Food No. 3,
Spratt's Pheasant Meal No. 5,
Spratt's Pheasant Meal No. 12,
Spratt's Poultry Food No. 3,
Spratt's Scratch Food No. 2,
Spratt's Turkey Food No. 3,
Spratt's Turkey Meal No. 5,
Spratt's Utility Mash Food,
Spratt's Wild Duck Meal.
- Staley's Manufacturing Co., A. E., Decatur, Ill.**
Staley's Corn Gluten Feed.
- Standard Cereal Co., The, Chillicothe, Ohio.**
Logan Hominy Feed,
Standco Feed Meal,
Standco Hominy Feed,
Standco Middlings,
Standco Mixed Feed,
Standco Wheat Bran.
- Standard-Tilton Milling Co., St. Louis, Mo.**
Bran with Screenings not exceeding Mill Run,
Middlings with Screenings not exceeding Mill Run.

Standard Tin Plate Co., Canonsburg, Pa.
Refuse Middlings.

Stanton & Sons, James F., New Stanton, Pa.
Corn and Oats Chop,
Kingfalfa,
Old Process Oil Meal.

Star & Crescent Milling Co., Chicago, Ill.
Crescent Bran with Ground Screenings not exceeding Mill Run,
Crescent Middlings,
Star Bran with Ground Screenings not exceeding Mill Run,
Star Middlings with Ground Screenings not exceeding Mill Run,
Star Reddog Flour.

Stegmaier Brewing Co., Wilkes-Barre, Pa.
Dried Brewers Grains.

Stell, B. C., Norfolk, Va.
Crown Brand Cottonseed Meal,
Royal Brand Cottonseed Meal.

Stellmann, W. H., Baltimore, Md.
Crown Brand Dried Malt Grains,
Crown Brand Rye Dried Grains,
Ador Brand Brewers Dried Grains,
Ador Brand Distillers Dried Grains,
Distillers Dried Corn Grains,
Distillers Dried Grains,
Milk Brand Brewers Dried Grains.

Stewart Distilling Co., Highlandtown, Md.
Distillers Rye Grains.

Stewart, Jesse C., Pittsburgh, Pa.
Shadyside Wheat Bran with Ground Screenings not exceeding Mill Run.

St. Mary Mill Co., St. Mary, Mo.
Wheat Bran,
Wheat Middlings with Ground Screenings not exceeding Mill Run.

Stock & Sons, F. W., Hillsdale, Mich.
Stock's Bran,
Stock's Middlings,
Stock's Monarch Mixed Feed,
Stock's Superior Mixed Feed.

Stokes Milling Co., William H., Watertown, S. Dak.
Country Wheat Bran with Ground Screenings not exceeding Mill Run,
Country Wheat Middlings with Ground Screenings not exceeding Mill Run.

Strawbaugh, E. C., York, Pa.
The X. Y. Z. Poultry Powder.

Sufferin-Hunt Mills, Decatur, Ill.
Acme Hominy Feed.

Sugarine Co., The, Peoria, Ill.
Ideal Dairy Feed,
Suco Alfalfa Molasses Feed,
Suco Dairy Feed,
Suco Old Process Linseed Meal,
Sugarine Calf Meal,
Sugarine Chick Feed,
Sugarine Chick Feed with 5 per cent. Grit,
Sugarine Dairy Feed,
Sugarine Hog Meal,
Sugarine Horse Feed with Alfalfa,
Sugarine Scratch Feed,
Sugarine Scratch Feed with 5 per cent. Grit,
Universal Scratch Feed,
Universal Scratch Feed with 5 per cent. Grit.

Sulzberger & Sons Co., Chicago, Ill.
Sulzberger's High Protein Meat Scrap,
Sulzberger's High Protein Tankage,
Sulzberger's Poultry Bone.

Swift & Co., Chicago, Ill.

Swift's Beef Meal,
 Swift's Blood Meal,
 Swift's Digester Tankage,
 Swift's Eureka Meat Scraps.
 Swift's Laymore Meat Scraps.
 Swift's Meat Meal,
 Swift's Meat Scraps,
 Swift's Poultry Bone Meal,
 Swift's Poultry Bone Chick,
 Swift's Poultry Bone Coarse,
 Swift's Poultry Bone Medium,
 Swift's Soluble Blood Flour.

Swope Brothers, Johnstown, Pa.

Alfalfa Meal,
 Banner Chick Feed,
 Brewers Dried Grains,
 Corn and Oats Chop,
 Dried Beet Pulp,
 Egg Maker Dry Mash,
 Excelsior Chicken Feed,
 Gluten Meal,
 June Pasture Dairy Feed,
 Old Process Oil Meal.

Syracuse Rendering Co., Syracuse, N. Y.

Syracuse Bone Meal,
 Syracuse Bone & Meat Meal,
 Syracuse Cracked Bone,
 Syracuse Poultry Food.

Teed's Sons, W. I., Sayre, Pa.

Teed's Ready Mixed Laying Mash.

Tennessee Fibre Co., Memphis, Tenn.

Creamo Brand Cottonseed Feed.

Texas Cake & Linter Co., Dallas, Texas.

Sunset Brand Cottonseed Meal & Cake,
 Texoma Brand Cottonseed Meal & Cake.

Thompson, F. E., Carlisle, Pa.

Beef Scrap,
 Old Process Oil Meal,
 Scratch Feed,
 Standard Midds. with Ground Screenings not exceeding Mill Run,
 Wheat Bran with Ground Screenings not exceeding Mill Run.

Thompson Distilling Co., West Brownsville, Pa.

Distillers Dried Grains.
 Thompson & Co., Pittsburgh, Pa.
 Oil Meal as Stock Food.

Thompson Milling Co., Lockport, N. Y.

Angelus Bran with Ground Screenings not exceeding Mill Run,
 Angelus Flour Middlings with Ground Screenings not exceeding Mill Run,
 Angelus Middlings with Ground Screenings not exceeding Mill Run,
 Angelus Mixed Feed with Ground Screenings not exceeding Mill Run.

Thornton & Chester Milling Co., Buffalo, N. Y.

T. & C. Wheat Bran,
 T. & C. Wheat Coarse Middlings,
 T. & C. Wheat Middlings,
 T. & C. Wheat Mixed Feed.

Thurnau Grain & Feed Co., Arnold, St. Louis, Mo.

Brewers Dried Grains.

Tioga Mill & Elevator Co., Waverly, N. Y.

Blue Brand Tioga Dairy Feed,
 Colonel's Ration,
 Derby Chick Feed,
 Derby Horse Feed,
 Derby Scratch Feed,
 Omar Mixed Feed,
 Red Brand Tioga Dairy Feed,
 Tioga Chick Feed,

Tioga Mill & Elevator Co.—Continued.

Tioga Dry Mash,
 Tioga Growing Feed,
 Tioga Horse Feed,
 Tioga Poultry Grains,
 Tioga Laying Food,
 Tioga White Wheat Middlings,
 Waverly Flour Wheat Middlings,
 White Brand Tioga Dairy Feed.

Toledo Grain & Milling Co., The, Toledo, Ohio

Camp's "A" Mixed Chop Feed,
 Camp's "A" Yellow Chop Feed,
 Camp's Clover Leaf Scratch Feed with Grit,
 Camp's Clover Leaf Scratch Feed no Grit,
 Camp's Corn & Oats Chop Feed,
 Camp's C. O. & B. Chop Feed,
 Camp's C. O. B. K. Chop Feed,
 Camp's Corn Meal Stone Ground,
 Camp's Invincible Alfalfa Feed,
 Camp's Keystone Chop Feed,
 Camp's Little Wonder Chop Feed,
 Camp's Maumee Stock Feed,
 Camp's M. D. Chop Feed,
 Camp's No. 1 Yellow Chop Feed,
 Camp's Red Ball Chick Food,
 Camp's Red Ball Egg Mash,
 Camp's Red Ball Scratch Feed without Grit,
 Camp's Red Ball Scratch Feed with Grit,
 Camp's Stock Feed,
 Camp's No. 2 White Middlings & Corn Meal,
 Camp's Wamba Chop Feed.

Toledo Seed & Oil Co., The, Toledo, Ohio.

Major Brand Old Process Oil Meal.

Trow Company, W., Madison, Ind.

Trow's Wheat Bran with Ground Screenings not exceeding Mill Run,
 Trow's Wheat Middlings with Ground Screenings not exceeding Mill Run,
 Trow's Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

Ubiko Milling Co., The, Cincinnati, Ohio.

Fourex (XXXX) Distillers Dried Grains,
 Ubiko Horse & Stock Feed,
 Union Grains, Ubiko, Biles Ready Dairy Ration.

Union Grain & Feed Co., The, Anderson, Ind.

Diamond Scratch Feed,
 Mixed Feed,
 Star Chop Feed,
 Union Alfalfa Meal,
 Union Chick Feed,
 Union Dairy Feed,
 Union Horse Feed,
 Union Mash,
 Union Scratch Feed,
 Universal Developing Feed,
 Universal Scratch Feed.

Union Seed & Fertilizer Co., New York, N. Y.

American Red Tag Cottonseed Meal,
 Columbia Cottonseed Feed,
 Number 5½ Cottonseed Feed,
 Number 6½ Cottonseed Feed,
 Number 7 Cottonseed Feed,
 Security Brand Cottonseed Feed.

Union Starch Refining Co., Edinburg, Ind.

Union Corn Germ Meal,
 Union Corn Gluten Feed.

United States Frumentum Co., The, Detroit, Mich.

Frumentum Hominy Feed.

United States Sugar Feed Co., Milwaukee, Wis.

U. S. Sugared Feed.

Urban Milling Co., George, Buffalo, N. Y.

Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run.

U. S. Stock Food Co., The, Kansas City, Mo.

Alfalfa Meal,
Blue Bell Brand Horse & Mule Feed,
Eagle Brand Alfalfa-Molasses,
Eagle Brand Dairy Feed,
Eagle Brand Horse & Mule Feed.

Valley City Milling Co., Grand Rapids, Mich.

Farmers Favorite Bran and Mill Run of Screenings,
Farmers Favorite Cow Feed and Mill Run of Screenings,
Farmers Favorite Middlings and Mill Run of Screenings.

Victor Brewing Co., The, Jeannette, Pa.

Brewers Dried Grains.

Voigt Milling Co., Grand Rapids, Mich.

Voigt's Pure Crescent Bran containing Mill Run Screenings,
Voigt's Pure Brand Middlings,
Voigt's Cow Feed containing Mill Run Screenings.

Wagar & Co., C. W., Philadelphia, Pa.

Middlesex White Corn Bran,
Pure Hominy Feed,
Union Gluten Feed.

Waggoner-Gates Milling Co., Independence, Mo.

Mixed Feed.

Walters Milling Co., Philadelphia, Pa.

Brewers Grains.
Corn Bran,
Hominy Feed.

Walter & Sons, George, Butler, Pa.

Byrite Egg Mash.

Washburn-Crosby Co., Minneapolis, Minn.

Adrian Red Dog Flour,
Rye Middlings,
Wheat Bran with Ground Screenings not exceeding Mill Run,
Wheat Flour Middlings with Ground Screenings not exceeding Mill Run,
Wheat Mixed Feed with Ground Screenings not exceeding Mill Run,
Wheat Standard Middlings with Ground Screenings not exceeding Mill Run.

Wash-Co Alfalfa Milling Co., The, Fort Calhoun, Nebr.

Alfalgreen,
Butlers Special Horse Feed,
Famous Horse Feed,
Nebraska Horse Feed,
None Better Horse Feed,
Peacock Horse Feed,
Practical Horse Feed,
Rix-O-Fat,
Special Horse Feed,
Strong Horse Feed,
Superior Horse Feed,
Wash-Co Alfalfa Meal,
Wash-Co Horse Feed.

Wengerd, D. B., Elk Lick, Pa.

Keystone Poultry Food.

Weiss Alfalfa Stock Food Co., The Otto, Wichita, Kans.

Otto Weiss Alfalfa Meal (Coarse Ground for Stock),
Otto Weiss Alfalfa Meal (Fine Ground for Poultry),
Otto Weiss Stock Feed,
Otto Weiss Sweet Feed No. 1,
Otto Weiss Sweet Feed No. 4.

Wells Flour Milling Co., Wells, Minn.

Feedwell Brand with Ground Screenings not exceeding Mill Run,
Feedwell Flour Middlings,

Wells Flour Milling Co.—Continued
 Feedwell Germ Middlings,
 Feedwell Lowgrade Flour,
 Feedwell Standard Middlings.

Wells-Abbott-Nieman Co., Schuyler, Nebr.
 Pure Wheat Bran,
 Pure Wheat Middlings,
 Pure Wheat Shorts.

Weltin, M., Quincy, Ill.
 Weltin's Bran,
 Weltin's A Middlings.

Wentz, A. F., Jersey Shore, Pa.
 Buckwheat Middlings,
 Mixed Chop,
 Pure Corn Chop,
 Pure Wheat Bran,
 Pure Wheat Middlings,
 Scratching Grains.

Wertz & Son, F. S., Reading, Pa.
 Corn & Oats Chop,
 Faramel Dairy Feed,
 Faramel Horse Feed.

Western Flour Mills Co., Davenport, Iowa.
 Black Hawk Bran with Ground Screenings not exceeding Mill Run,
 Black Hawk Flour Middlings,
 Black Hawk Foundry Flour,
 Black Hawk Germ Middlings,
 Black Hawk Low Grade Flour,
 Black Hawk Red Dog Flour,
 Black Hawk Second Clear,
 Black Hawk Special Middlings,
 Black Hawk Standard Middlings.

Western Grain Products Co., Hammond, Ind.
 Alfalfa Meal,
 Calumet Scratch Feed no Grit,
 Calumet Scratch Feed with Grit,
Calumet Stock Feed,
 Chicago Alfalfa Horse & Mule Feed,
 Hammond Chick Feed no Grit,
 Hammond Chick Feed with Grit,
 Hammond Dairy Feed,
 Hammond Horse Feed,
 Hammond Scratch Feed no Grit,
 Hammond Scratch Feed with Grit.

Western Grains & Feed Co., Chicago, Ill.
 Atlantic Grains,
 Dried Brewers Grains,
 Malt Sprouts,
 No. 2 Atlantic Grains,
 Rye Grains,
 Westco Grains.

Western Star Mill Co., Salina, Kans.
 Star Winter Wheat Bran and Middlings,
 Star Winter Wheat Bran and Screenings,
 Star Winter Wheat Middlings.

Wheeling Steel & Iron Co., Wheeling, W. Va.
 Refuse Cleaning Mixture.

Wichita Alfalfa Stock Food Co., The, Wichita, Kans.
 Wichita Pure Alfalfa Meal.

Wilbur Stock Food Co., Milwaukee, Wis.
 Wilbur's Egg Tonic,
 Wilbur's Stock Tonic.

Will, Jr., William T., Philadelphia, Pa.
 Ideal Chick Feed,
 Ideal Developing Feed,
 Ideal Fish Mash Feed,
 Ideal Scratch Feed.

Williams, Frank, Easton, Pa.

Dandy Feed,
Diamond Chick Feed,
Diamond Mash Feed,
Diamond Scratch Feed,
Diamond Brand Beef Scraps,
Special Feed,
Star Scratch Feed,
Tip Top Feed,
Wheat Bran,
Wheat Middlings,

Wilson Brothers, Buffalo, N. Y.

Cottonseed Meal,
Dried Brewers Grains,
Oatfeed,
Spring Wheat Bran with Ground Screenings not exceeding Mill Run,
Spring Mixed Feed with Ground Screenings not exceeding Mill Run,
Spring Wheat Middlings with Ground Screenings not exceeding Mill Run,
Winter Wheat Bran with Ground Screenings not exceeding Mill Run.
Malt Sprouts.

Wilson, John C., Philadelphia, Pa.

Wilson's Alfalfa Molasses Horse Feed.

Woodworth & Co., E. S., Minneapolis, Minn.

Snow's Cream Flour Middlings,
Snow's Flour Middlings.

Woolworth, E. J., Kearney, Nebr.

Pure Alfalfa Meal.

Xtravim Mollasses Feed Co., Boston, Mass.

Xtra-Vim Feed.

Yerxa, Andrews & Thurston, Inc., Minneapolis, Minn.

Golden Durum Mixed Feed,
Golden Durum Wheat Flour Middlings,
Hector Durum Wheat Red Dog Flour,
Nokomos Durum Wheat Bran,
Nokomos Durum Wheat Middlings.

Young's Stock Food Co., Dr. T. D., Media, Pa.

Dr. Young's Anti-abortion Food,
Dr. Young's Hog Food,
Dr. Young's Horse Food,
Dr. Young's Poultry Food.

York Milling Co., York, Nebr.

Pure Wheat Bran,
Pure Wheat Shorts.

Zenith Milling Co., Kansas City, Mo.

Pure Wheat Shorts,
Wheat Bran and Screenings not exceeding Mill Run.

ANALYSES OF SAMPLES OF FEEDING STUFFS RECEIVED FROM MANUFACTURERS AND PURCHASES LO- CATED IN PENNSYLVANIA

Under the provisions of the law providing for the analysis of feeding stuffs for residents of the State for a fee of One Dollar (\$1.00), 263 special samples were received and analyzed during the year for manufacturers and purchasers of feeds. As many of these samples were submitted for the purpose of determining proper guarantees to be used in meeting labeling requirements and as these analyses did not in all cases represent the final composition of the products placed on sale, a table showing the results obtained is not included in this report. A number of these samples included cottonseed meals which were analyzed to determine whether or not the guarantees claimed would be sustained and whether the shipments could, therefore, be either accepted or rejected. Many inquiries also accompanied requests for analysis of samples with respect to composition and the presence of prohibited and inferior products. These inquiries were answered and sent out with reports of analyses.

DIRECTIONS FOR ANALYSIS OF SPECIAL SAMPLES

Residents of Pennsylvania who wish to have samples of feeding stuffs analyzed should proceed as follows:

Amount of sample: About one-half pound of the sample of feed to be analyzed should be carefully secured from a number of sacks, or where the feed is in bulk, from several different places in the bin, thoroughly mixed and placed in large mailing envelopes, bottles

or cartons or other containers usually used for mailing samples. A small amount of feed can be analyzed but better results are obtained on a half pound sample.

Charges for Analysis: A charge is made of one dollar (\$1.00) for each sample analyzed and determinations are made for protein, fat and fiber. The fee should be sent, with a letter accompanying sample and requesting the analysis to be made, in the form of a check, money order or cash.

Address: Both letters and samples should be addressed and sent to the Bureau of Chemistry, Pennsylvania Department of Agriculture, Box "R," Harrisburg, Pa. The name of the sender should be placed on the package containing sample.

OFFICIAL SAMPLES OF FEEDING STUFFS OBTAINED BY SPECIAL AGENTS

The number of official samples of feeding stuffs secured by the Special Agents of the Department was 1,148. They were taken from the stock being offered for sale in the warehouses of Manufacturers and Dealers throughout the State in 310 towns and cities in 65 counties. Many localities were visited where samples were not taken in order to avoid unnecessary duplications of analyses. The method of labeling and tagging the various shipments and lots of the feeds found on the markets was inspected and reports submitted with the samples sent to the Department.

In the following Table (No. I) will be found the names of the counties visited and the number of samples secured in each:

TABLE I.—COUNTIES VISITED AND NUMBER OF SAMPLES SECURED
IN EACH.

Name of County.	Number of Samples.
Adams,	12
Allegheny,	50
Armstrong,	19
Beaver,	28
Bedford,	9
Blair,	38
Bradford,	41
Bucks,	44
Butler,	21
Cambria,	32
Cameron,	4
Centre,	19
Chester,	65
Clarion,	8
Clearfield,	14
Clinton,	8
Columbia,	1
Crawford,	5
Cumberland,	27
Delaware,	12
Elk,	13
Erie,	15
Fayette,	21
Forest,	3
Franklin,	16
Fulton,	1
Greene,	1
Huntingdon,	12
Indiana,	10
Jefferson,	17
Juniata,	2
Lackawanna,	29
Lancaster,	26
Lawrence,	19
Lebanon,	7
Lehigh,	18
Luzerne,	21
Lycoming,	11
McKean,	29
Mercer,	12
Midlin,	10
Monroe,	12
Montgomery,	43
Northampton,	18
Northumberland,	12
Perry,	6
Philadelphia,	78
Potter,	6
Somerset,	21
Sullivan,	1
Susquehanna,	16
Tioga,	42
Union,	12
Venango,	8
Warren,	5
Washington,	35
Wayne,	12
Westmoreland,	53
Wyoming,	20
York,	1
Total,	1,148

GUARANTEES AND DEFICIENCIES

The number of samples which were found deficient in their content of protein and fat exceeded the number which failed to meet their guarantees as shown in the 1915 report. These deficient samples were more numerous among the Cottonseed Meals and Proprietary Dairy and Stock Feeds than among the other classes of feeds. Quite a number of these samples were slightly under the

guarantees in protein and fat although in the majority of cases, the guarantees were exceeded except in the ones noted as deficient. Out of the total number received, 1,097 were guaranteed, 15 or 1.37 per cent. were deficient in both protein and fat, 86 or 7.84 per cent. were deficient in protein alone and 90 or 8.20 per cent. were deficient in fat alone. The total number of samples deficient in protein was 101 or 9.21 per cent. and 105 or 9.57 per cent. were deficient in fat. Only those deficiencies were noted where the protein was 1.00 per cent, or more and the fat 0.50 per cent. or more below the guarantees claimed. In the following Table (No. II) will be found the various classes of feeding stuffs, the number of samples analyzed in each class, the number guaranteed and the number which were found deficient in both protein and fat, in protein alone and in fat alone.

TABLE II.—CLASSIFICATION OF SAMPLES ANALYZED AND SUMMARY OF DEFICIENCIES.

Name of Feeding Stuffs.	Number of samples analyzed.	Number of samples guaranteed.	Deficient in protein and fat.	Deficient in protein alone.	Deficient in fat alone.
Cottonseed meal,	74	71	3	19	4
Linseed meal, N. P.,	2	2	.....	.....	.....
Linseed meal, O. P.,	37	36	.....	.....	.....
Cocoonut oil meal,	3	3	.....	.....	.....
Corn oil meal,	1	1	.....	.....	.....
Distillers' dried grains (largely from corn),	43	43	.....	1	11
Distillers' dried grains (largely from rye),	3	3	1	1	1
Distillers' and yeast dried grains,	8	8	2	2	4
Brewers' dried grains,	29	29	.....	4	.....
Malt sprouts,	1	1	.....	.....	.....
Corn gluten feed,	37	34	.....	2	.....
Hominy feed,	19	18	.....	.....	2
Corn bran,	7	7	.....	.....	.....
Corn feed meal,	3	3	.....	.....	1
Low grade flour,	4	3	.....	.....	.....
Wheat middlings,	15	11	.....	2	.....
Wheat middlings with admixtures,	30	30	3	4	3
Mixed feed; wheat by-product,	10	9	.....	.....	.....
Wheat bran,	25	21	.....	1	.....
Wheat bran with admixtures,	28	27	.....	.....	.....
Rye middlings,	2	2	.....	.....	.....
Rye middlings with admixtures,	2	2	.....	.....	.....
Wheat and rye middlings,	1	1	.....	.....	.....
Oat feeds,	5	4	.....	.....	1
Oat hulls,	1	1	.....	.....	.....
Buckwheat middlings,	3	1	.....	.....	.....
Buckwheat feeds,	2	2	.....	.....	.....
Alfalfa meals,	16	12	.....	.....	.....
Dried beet pulp,	10	10	.....	.....	.....
Proprietary dairy feeds,	61	59	1	4	4
Proprietary dairy feeds with molasses,	135	135	1	19	18
Proprietary stock, horse and mule feeds,	103	102	1	3	7
Proprietary stock, horse and mule feeds with molasses,	170	165	1	6	10
Proprietary calf meals,	12	13	.....	.....	1
Proprietary swine feeds,	8	8	.....	.....	2
Proprietary chop feeds,	38	30	.....	1	6
Miscellaneous chop feeds,	20	10	.....	.....	1
Miscellaneous feeds,	3	.....	.....	.....	.....
Proprietary poultry foods,	143	138	1	5	12
Animal by-products,	38	38	1	12	2
Condimental stock and poultry foods,	2	3	.....	.....	.....
Total,	1,148	1,097	15	86	90

AVERAGE ANALYSES AND RETAIL PRICES

In order to compare the composition and retail prices of the several kinds and brands of feeds sold in the State during 1916, the following Table (No. III) has been prepared showing the average analyses and selling prices of these brands and classes as represented by the samples received during the year. Where two or more samples were analyzed, the results have been averaged and have been arranged in six classes according to their protein content as follows: Class 1, 30 per cent. to 45 per cent.; class 2, 20 per cent. to 30 per cent.; class 3, 15 per cent. to 20 per cent.; class 4, 10 per cent. to 15 per cent.; class 5, 3 per cent. to 10 per cent. and those products classed as "Animal By-Products." Compared with the selling price prevailing during last year, judging from the average retail prices of the samples received, there has been an increase in all but three classes. It is realized that the prices secured by the Special Agents for the samples received as compared with the large tonnage of feeds sold in the state is only an approximation of feed values, however, these figures will be of interest compared with the selling prices quoted during 1915. An average has been made of the retail prices of the main groups of feeds included in the report for 1915 and those included in this report together with the percentage increase, as follows:

	1915.	1916.	Percentage Increase.
Cottonseed meals,	\$34 44	\$42 19	23
Linseed meals,	41 71	43 38	4
Distillers' dried grains,	33 43	34 54	3
Brewers' dried grains,	29 63	29 48	.....
Corn gluten feeds,	31 61	35 54	13
Wheat offal feeds,	31 47	31 60	0.4
Buckwheat offal feeds,	28 75	33 80	17
Alfalfa meals,	34 50	31 50	.....
Dried beet pulp,	29 00	30 80	6
Proprietary dairy feeds,	30 43	31 77	4
Proprietary stock, horse and mule feed,	33 98	35 01	3
Proprietary calf meals,	69 87	67 09	.....
Proprietary swine feeds,	41 10	33 63	.....
Proprietary poultry foods,	45 92	48 56	6
Proprietary chop feeds,	34 82	36 60	5
Animal by-products,	63 50	59 53	.....

It will be noted that the greatest increase in price was for Cottonseed Meals. The Poultry Foods and Chop Feeds as well as the Dairy and Stock feeds also showed an increase in the selling price over those which prevailed during the previous year. In the following table will be found the average analyses and selling prices for those feeds where two or more samples were received and analyzed.

TABLE III.—AVERAGE ANALYSIS AND RETAIL PRICE.

Name of Feeding Stuffs.	Moisture.	Protein.	Fat.	Fiber.	Price per ton.
Class 1 (30 per cent.—45 per cent. protein).					
Tip Top Choice cottonseed meal,	8.28	44.82	7.22	7.42	\$47 60
Sunset Brand Prime cottonseed meal,	8.08	43.41	6.65	8.91	38 00
Macado cottonseed meal,	8.03	42.50	6.60	8.49	37 60
Good Luck Brand cottonseed meal,	8.02	41.66	7.36	8.90	43 25
Bartlett's Michigan Farmer Brand choice cottonseed meal,	8.42	41.47	6.76	8.86	46 00
Dixie Brand cottonseed meal,	8.14	41.22	7.35	9.13	39 20
Cottonseed meal, (East St. Louis Cotton Oil Co.),	7.89	41 07	7.65	9.44	42 00
Butterfly Brand cottonseed meal,	7.90	40.16	6.97	10.55	45 50
Cottonseed meal, (total average),	8.28	39.60	7 01	10.63	42 19
Buckeye Prime cottonseed meal,	8.54	39.42	6.52	10.80	43 40
Owl Brand High Grade cottonseed meal,	8.09	39.03	7.13	10.62	42 50
Porfat Brand cottonseed meal,	8.41	38.40	6.81	11.40	44 40
Jersey Brand cottonseed meal,	8.93	38.25	7.15	11.15	40 67
Kineda Prime cottonseed meal,	8.84	37.69	6.30	11.42	42 00
Dove Brand Prime cottonseed meal,	8.47	37.69	6.31	11.92	46 25
Memphis Brand cottonseed meal,	8.13	37.65	5.78	13.69	44 00
Canary Brand High Grade cottonseed meal,	8.95	36.96	6.99	11.61	39 20
Cleveland Flax Meal,	8.47	36.22	2.69	9.21	41 60
Bennie old process oil meal,	9.73	35.47	7.50	7.21	45 60
Pure old process oil meal, (Stencer Kellogg & Sons),	9.74	35.41	5.85	8.33	43 86
Old Process Ground Oil Cake (Archer-Daniels Linseed Co.),	9.71	35.15	7 62	7.53	41 33
Old process oil meal, (American Linseed Co.),	9.32	34.41	7.33	7.59	44 00
Nutritia distillers' dried grains,	6.12	34.16	9 46	11.47	34 00
Purina calf meal,	11.06	33.76	4 34	3.40	70 00
Linseed meal, O. P. (total average),	9.75	33.22	6.33	8.22	43 49
M. F. B. distillers' dried grains,	7.16	32.35	10.94	11.73	31 30
Oil Meal as Stock Food,	9.59	32.13	7.03	8.13	48 00
Ajax Flakes, distillers' dried grains,	7.22	32.05	10.20	11.92	37 32
Amco old process linseed meal,	9.92	32.01	6.86	8.51	40 67
Hector distillers' dried grains,	6.85	31.71	10.71	11.50	36 80
Old process oil meal, (Metzgar Seed & Oil Co.),	9.74	31.38	6.62	8.44	42 25
Empire State Dairy Feed,	6.98	31.27	11.04	12.50	34 17
Distillers' dried grains, (largely from corn, T. A.),	6.94	31.12	10.48	11.50	35 78
Atlas distillers' dried grains,	8.97	31.03	9.37	12.16	41 00
Fourex distillers' dried grains,	7.27	30.88	10.81	11.61	36 00
Old process oil meal, (The Toledo Seed & Oil Co.),	9.94	30.50	6.72	9.13	44 40
Eagle 3 D Grains, distillers' dried grains,	7.46	30.36	11.76	10.14	35 20
Class 2 (20 per cent.—30 per cent. protein).					
Amco Dairy Feed,	6.44	28.37	7.67	13.63	34 50
M. F. B. brewers' dried grains,	7.53	28.10	7.40	13.45	31 00
Bull Brand brewers' dried grains,	7.09	28.01	6.86	13.50	31 40
Buckwheat Middlings (average),	12.71	27.73	7.64	6.54	37 00
Ox-O Pure Cane Molasses Concentrated Dairy Feed,	9.27	27.57	6.32	10.49	36 00
Unicora Dairy Ration,	7.95	27.28	7.02	10.44	36 67
Larro-Mash,	9.81	27.22	3.88	7.88	49 50
Brewers' dried grains, (total average),	7.05	27.06	6.93	13.87	29 48
Peerless Brand brewers' dried grains,	8.59	26.69	6.72	13.62	28 33
Buffalo corn gluten feed,	9.87	26.50	2.54	7.81	36 00
Douglas corn gluten feed,	9.43	26.48	2.33	6.44	35 80
Graudin's Milk Maker,	7.73	26.28	5.97	10.78	42 60
P. Bro. corn gluten feed,	6.63	26.25	2.02	6.96	37 00
Brewers' dried grains, (Atlantic Export Co.),	6.60	26.22	6.88	15.29	32 00
Dewey's Ready Ration,	7.22	25.97	8.09	10.60	37 60
Brewers' dried grains, (Rosekrans-Snyder Co.),	6.50	25.85	6.62	13.67	33 50
Clinton corn gluten feed,	9.00	25.66	3.02	7.19	41 00
Union Grains: Biles Ready Dairy Ration,	8.29	25.51	7.09	9.82	36 18
Corn gluten feed, (total average),	9.39	25.43	2.76	7.26	35 54
Ryde's Cream Calf Meal,	11.70	25.41	5.32	6.10	74 00
Purina Cow Chow Feed,	9.92	25.38	3.90	14.08	38 00

TABLE III.—Continued.

Name of Feeding Stuff.	Moisture.	Protein.	Fat.	Fiber.	Price per ton.
Fleischman's distillers' dried grains,	5.57	25.38	9.45	14.31	33.00
Brewers' dried grains, (Independent Brewing Co. of Pittsburgh),	2.92	25.07	6.67	15.66	27 60
Holstein brewers' dried grains,	7.29	25.00	7.55	13.04	28 50
International Cattle Feed,	11.43	24.42	6.47	10.44	37 40
Union corn gluten feed,	10.25	24.41	2.83	7.24	38 50
Staley's corn gluten feed,	8.89	24.21	3.83	7.43	35 00
Globe Creamery Feed,	8.72	23.94	5.03	9.94	37 00
Cocoanut Oil Cake Meal, (Shepard, Clark & Co.),	8.98	23.81	10.90	8.22	35 00
Stevens 44 Dairy Ration,	9.57	23.76	6.41	13.72	35 60
Cream of Corn gluten feed,	10.38	23.29	2.25	7.42	31 67
Domino Justice Creamery Feed,	7.77	22.94	5.88	12.53	37 00
Hamlin's Quality Poultry Dry Mash,	8.65	22.55	5.14	10.52	44 60
Purina Dairy Feed,	12.46	21.74	3.35	15.61	34 33
John W. Eshelman's Laying Mash,	10.14	21.50	6.23	5.85	48 50
Jem Milk Maker,	9.96	21.13	5.61	8.98	36 09
Blue Ribbon Laying Mash,	8.81	20.77	5.03	9.27	46 40
Quaker Poultry Mash,	9.57	20.66	5.76	8.33	42 00
Purina Chicken Chowder Feed,	11.14	20.60	4.30	6.62	53 40
Distillers' dried grains, distillers' and yeast dried grains, (M. F. Baringer),	6.94	20.60	6.30	17.44	29 00
Larro-Feed,	9.43	20.50	3.93	12.10	35 06
Class 3 (15 per cent.—20 per cent. protein).					
Ivy Grains, distillers' and yeast dried grains,	7.19	19.66	6.50	17.15	35 00
Best Mixed Feed for Cows,	10.25	19.23	4.66	6.71	39 00
Schumacher Calf Meal,	8.41	19.08	8.48	2.64	71 60
Distillers' and yeast dried grains, (T. A.), ..	7.09	19.01	6.36	17.51	30 75
Lay or Bust (Dry Mash),	9.20	18.84	4.00	7.97	49 00
Distillers' Dried Grains, (largely from rye, T. A.),	7.03	18.62	7.20	12.74	26 33
Sucrene Dairy Feed,	11.50	18.56	5.48	12.95	29 12
Domino Butterine Dairy Feed,	11.32	18.46	4.24	11.83	29 67
Fleischmann's Dried Grains, distillers' and yeast dried grains,	6.65	18.28	6.46	18.18	30 00
Alfalfa Meal, (The Otto Weiss Milling Co.), ..	8.82	17.77	2.60	23.68	28 00
Wheat Bran with Mill Run Screenings, (Standard-Tilton Milling Co.),	9.80	17.73	4.64	8.66	26 33
Sucrene Hog Meal,	11.76	17.48	4.89	7.30	34 00
Palm Oil Middlings,	5.19	17.47	7.19	5.37	25 00
Arcady Dairy Feed,	12.86	17.26	4.37	11.96	27 50
Co-Boss Dairy Feed,	11.99	17.24	2.30	15.18	28 60
Rye Middlings, (average),	10.98	17.03	3.34	5.05	31 60
Clover Leaf Dairy Feed,	11.98	17.02	3.41	13.25	28 08
Badger Dairy Feed,	10.87	16.96	4.25	14.16	28 44
Palm Midds,	6.30	16.93	7.62	5.37	27 00
Hammond Dairy Feed,	11.76	16.82	4.04	11.63	28 08
Low Grade Flour Middlings, (total average), ..	10.98	16.77	4.62	1.97	36 60
Wheat Middlings, (average),	11.68	16.61	4.83	5.15	35 93
Wheat Middlings with Admixtures, (total average),	9.55	16.56	5.74	5.91	31 70
H. & S. Alfalfa Feed for Milch Cows,	14.03	16.47	4.01	11.77	34 60
Rye Middlings with Admixtures, (average), ..	11.22	16.47	3.42	5.09	36 60
Dayton's Laying Mash,	9.86	16.47	4.98	8.37	49 00
Mixed Feed—Wheat By-Products, (average), ..	9.76	16.21	5.21	8.07	36 10
Buckeye Feed,	10.34	16.13	5.30	7.87	29 33
Distillers' Rye Grains, (Chas. England & Co.),	7.66	16.07	6.09	13.26	27 25
Wheat Bran with Admixtures, (total average),	9.83	15.89	4.81	9.71	28 46
Alfalfa Meal, (Omaha Alfalfa Milling Co.), ..	7.25	15.79	1.44	29.12	31 00
Choice White Middlings,	11.05	15.78	4.80	4.09	33 00
Quaker Dairy Feed with Molasses,	11.55	15.75	4.79	14.37	32 40
Alfalfa Meal, (total average),	7.97	15.61	1.81	28.68	31 50
International Special Dairy Feed,	12.04	15.58	5.49	13.09	29 78
Wheat Bran, (average),	9.74	15.55	4.95	9.54	29 80
Big Diamond Wheat Bran,	10.38	15.44	4.98	10.35	28 00
Red Comb Alfalfa Meal,	7.47	15.31	1.91	27.71	34 60
Dark Middlings,	7.59	15.07	4.48	8.53	29 50
Dixie Dairy Feed,	13 40	15.04	4.53	14.44	30 67
Conkey's Buttermilk Starting Food for Chicks, ..	10.76	15.04	4.08	2.63	121 40
Wheat Bran with Ground Screenings not exceeding Mill Run, (Washburn-Crosby Co.), ..	8.76	15.01	5.25	10.67	32 00

TABLE III.—Continued.

Name of Feeding Stuff.	Moisture.	Protein.	Fat.	Fiber.	Price per ton.
Class 4 (10 per cent.—15 per cent. protein).					
H. & S. Horse, Mule & Dairy Feed,	16.45	14.99	3.44	11.37	30 50
Buckwheat Feed, (average),	9.89	14.94	3.87	29.43	29 00
Blue Top Dairy Feed,	11.56	14.54	3.84	14.78	30.33
Anchor Dairy Feed,	13.77	14.24	2.71	8.57	31 60
Badger Fancy Middlings,	10.38	13.38	6.75	4.25	37 50
Chicago Alfalfa Horse and Mule Feed,	13.49	13.20	2.40	12.65	34 00
Hornby's Meadow Feed,	15.17	13.02	0.62	16.60	28 60
Corno Sweet Feed,	15.34	12.88	2.58	10.92	40 00
Wheat Screenings, (The Toledo Grain & Mfg. Co.),	11.41	12.78	2.73	3.89	35 00
Dickinson's Hobby Horse Feed,	14.74	12.45	1.85	12.74	37 00
Energy Horse Feed,	14.90	12.24	3.57	5.74	38 33
C. O. & B. Feed,	8.42	12.19	3.98	10.29	35 00
Badger hominy feed,	9.85	12.08	6.71	4.98	38 00
Best Mixed Feed for Horses,	9.92	12.06	6.17	6.86	45 00
Peters' Rabbit Mule Feed,	15.60	12.02	2.73	14.01	31 75
Harvest Horse Feed,	16.64	11.98	1.30	11.38	37 00
International Dan Patch Horse Feed,	15.52	11.98	2.35	14.67	34.69
Peters' King Corn,	15.96	11.92	1.89	12.42	34 33
Al-Corn-O Horse Feed,	16.55	11.75	1.65	12.53	32 25
Nehraska Horse Feed,	16.45	11.75	1.65	12.53	32 25
Choice Steam Cooked Hominy Feed,	10.05	11.71	6.02	3.77	41 60
Green Meadow Dairy Feed,	18.74	11.63	0.68	17.08	30 33
Perfection Horse Feed,	15.59	11.66	2.22	10.14	35 50
Kingalfa Horse Feed,	15.63	11.65	2.22	13.09	32 80
Peters' Arab Horse Feed,	14.88	11.59	2.32	10.56	36 00
Peerless Alfalfa Horse Feed,	15.63	11.57	2.05	11.30	35 00
Omaha Special Horse and Mule Feed,	16.99	11.56	1.61	12.70	34 25
Hominy feed, (total average),	9.92	11.52	6.84	4.50	38 64
Schumacher Feed,	9.17	11.51	3.88	10.11	34 59
Dickinson's Globe Scratch Feed, No Grit,	12.39	11.47	3.44	2.13	41 60
Blue Ribbon Scratch Feed,	11.80	11.38	3.53	3.26	46 00
The Park & Pollard Co. Horse Feed,	16.87	11.33	1.92	8.87	34 00
Emco Evans hominy feed,	9.50	11.25	7.65	5.06	40 60
Buffalo Stock Feed,	10.48	11.22	4.19	6.48	36 60
Purina Chick Feed,	12.95	11.19	3.12	2.23	51 60
Homco hominy feed,	9.55	11.02	6.73	4.57	40 00
Log Cabin Poultry Scratch Feed—Without Grit,	11.81	11.00	3.23	3.30	45 00
Best Mixed Grain for Chickens,	11.79	10.97	3.47	3.28	48 00
Badger Horse Feed,	17.26	10.95	1.89	11.56	35 00
Eshelman's Stock Feed,	10.70	10.92	3.83	9.00	34 17
Schumacher Little Chick Feed,	11.67	10.89	3.28	2.56	47 60
Corno Stock Feed,	8.09	10.78	6.03	11.86	41 00
Jem Stock Feed,	10.49	10.73	4.56	10.31	33 00
Purina Scratch Feed,	13.06	10.69	3.05	2.34	47 60
Schumacher Scratch Grains—No Grit,	12.14	10.69	3.35	2.78	44 00
Cluck, Cluck Scratch Feed—No Grit,	12.61	10.60	2.04	2.39	45 60
Derby Horse Feed,	16.69	10.66	3.07	8.69	34 00
Corn bran, (total average),	9.02	10.63	8.47	7.98	30 57
Sundowner Scratch Feed with Grit,	10.13	10.60	3.05	2.58	43 00
Camp's Little Wonder Chop Feed,	9.85	10.60	3.56	8.79	32 72
White Cross Stock Feed,	10.98	10.54	4.46	4.78	37 46
Sacredne Horse Feed with Alfalfa,	16.14	10.49	2.83	9.10	35 25
Clover Leaf Horse Feed,	15.18	10.49	2.45	11.10	36 50
Puritan Horse and Mule Feed,	18.87	10.44	1.52	11.88	33 50
Green Cross Horse Mixed Feed with Molasses,	15.08	10.44	2.34	12.14	36 44
Corn and Oats Chop, (average),	10.97	10.43	4.07	4.63	41 40
Camp's Red Ball Scratch Feed,	12.66	10.40	3.49	2.35	39 33
Blue Top Scratch Feed—No Grit,	12.90	10.38	2.78	3.02	42 60
Cream City Horse Feed,	16.02	10.33	1.89	12.08	36 00
Sertach Feed—No Grit, (John W. Eshelman),	13.35	10.29	3.21	2.56	46 00
Purina Feed with Molasses,	17.11	10.20	2.31	9.05	35 38
Good Luck Feed with Molasses,	16.85	10.18	2.00	12.80	34 67
Protina Horse Feed,	16.21	10.18	2.30	13.25	30 75
Badger Stock Feed,	8.44	10.12	4.62	12.38	34 23
Corn and Oats Chop, (C. P. Matthews & Sons, Inc.),	10.28	10.07	6.44	5.78	41 00
Class 5 (3 per cent.—10 per cent. protein).					
White Diamond Feed,	10.38	9.94	3.59	8.09	35 00
Dixie Horse and Mule Feed,	15.26	9.90	2.44	9.22	32 83
Dried Beet Pulp, (total average),	8.28	9.89	0.93	18.80	30 80
Dried Beet Pulp, (The Larrowe Milling Co.),	8.53	9.87	0.84	18.93	30 17
Grandin's Stock Food,	10.32	9.82	5.79	10.85	40 00

TABLE III.—Continued.

Name of Feeding Stuffs.	Moisture.	Protein.	Fat.	Fiber.	Price per ton.
Hamlin's Quality Feed,	16.49	9.80	2.15	12.09	36 00
Dried Beet Pulp, (Michigan Sugar Co.),	8.87	9.77	1.20	18.19	30 60
Alfalfa Feed, (Charles W. Bosler),	19.35	9.64	1.85	9.89	34 75
Badger Cream Flakes,	9.33	9.57	6.18	8.79	33 50
No. 1 Chop Feed,	10.36	9.55	3.61	7.72	35 80
Yellow P. & S. Feed,	9.64	9.41	3.77	9.22	38 60
Portage Stock Feed,	8.18	9.41	4.88	11.86	31 73
Victor Feed,	8.84	9.35	4.50	9.95	30 60
Anchor Molasses Horse and Mule Feed,	16.51	9.32	3.39	6.01	34 00
Faramel Horse Feed,	14.88	9.32	3.60	5.05	38 00
Puritan No. 2 Chop,	9.27	9.31	3.35	10.02	35 00
Boss Feed,	10.83	9.11	3.71	9.57	35 20
Corn feed meal, (total average),	12.66	9.00	3.66	2.95	38 60
Oat Feed, (Robin Hood Mills, Ltd.),	6.19	7.05	2.87	23.95	26 32
Oat Feed, (largely oat hulls, total average), ..	6.02	6.42	2.40	25.12	26 00
Xtra-Vim Feed,	18.69	5.32	0.57	5.33	42 60
Animal By-Products.					
Darling's 60 per cent. Digester Tankage,	10.27	62.16	6.55	1.44	58 00
Ground Meat Scraps, (The American Agricultural Chemical Co.),	7.32	48.63	13.84	1.40	85 00
Quaker City Quality Brand Meat and Bone Scraps,	6.41	48.34	13.34	1.00	56 67
Reichard's Standard Beef Scrap,	7.09	47.93	12.67	1.19	57 60
Consolidated Beef Scraps,	6.27	47.32	13.19	1.37	56 00
Swift's Laymore Meat Scraps,	6.78	40.97	12.61	2.13	59 00
Berg's 3 Medal Poultry Meat,	7.62	38.60	14.62	2.04	59 00

DISCUSSION OF THE ANALYTICAL RESULTS

The official samples of feeding stuffs secured by the Special Agents throughout the State were each analyzed and examined microscopically to determine whether or not the guarantees found upon sacks or attached cards would be sustained and whether or not they contained the ingredients claimed or any prohibited materials as well as to ascertain their general character and appearance. The complete results of this work have been tabulated in accordance with the classification shown in Table II and included in the large Table (No. IV) making up the major portion of this report showing a brand names, names and addresses of Manufacturers or Importers, names and addresses of Dealers or parties from whom the samples were secured and the guarantees claimed. The samples of each class are arranged in alphabetical order of the names of Manufacturers or Importers and where two or more samples of the same kind or brand of feed were received, averages of the analytical results are shown. The deficiencies referred to in the following discussions are only those where the protein was found to be 1.00 per cent. or

more and the fat one-half of 1.00 per cent. or more below their respective guarantees. These deficiencies, therefore, do not include the many cases where slight variations occurred.

OIL CAKE MEALS

COTTONSEED MEAL.

Analysis on pages 82 to 89.

There were 74 samples of cottonseed meal received representing 33 brands, 3 not being guaranteed as required. Of the number guaranteed, 3 were found to be deficient in both protein and fat, 19 deficient in protein alone and 4 in fat alone. There were 29 shipments represented by samples where both minimum and maximum or "sliding" guarantees were given for protein, fat and fiber. Of the number guaranteed in this manner only 3 met the higher figures for protein while many samples failed to meet the lower guarantees. From this information it is evident that the higher guarantees for protein cannot be depended upon as an index of the composition of such cottonseed meals. There was a greater number of deficiencies noted than during 1915, the meals containing more hulls and less protein, while the average retail price exceeded that shown in the preceding report. The average content of protein was also less than the average for last year. There were 10 samples which contained less than 37 per cent. of protein and which were guaranteed to contain a greater amount, selling for about \$34 to \$50 per ton or at prices for which high grade meals could have been purchased. The lowest protein was 33.31 per cent., the highest 45.13 per cent. with an average of 39.60 per cent. The fat varied from 5.58 per cent. to 10.51 per cent. with an average of 7.01 per cent. The fiber varied from 6.45 per cent. to 14.89 per cent. with an average of 10.63 per cent. The selling prices ranged from \$33 to \$50 and averaged \$42.19 per ton. These results show that attention should be paid to the guarantees claimed for cottonseed meals and that the higher grades of Meal can be secured for as fair a price as those having a low analysis.

LINSEED MEAL.

Analysis on pages 88 to 93.

The number of samples of linseed meal received was 39, 2 being new process representing one brand and the remaining number being old process meals and representing 8 different brands. All but one were guaranteed and no deficiencies were noted. The average analysis of the new process Meals was as follows: protein 36.22 per cent., fat 2.69 per cent., fiber 9.21 per cent. and the average retail price was \$41.60 per ton.

The samples of old process linseed meals represented 8 different brands and as a rule exceeded their guarantees upon analysis. Two brands were guaranteed with both minimum and maximum guarantees for protein and in none of these samples were the higher figures sustained. The protein varied from 29.44 per cent. to 37.88 per cent. with an average of 33.22 per cent.; the fat varied from 4.93 per cent. to 9.98 per cent. with an average of 6.83 per cent.; the fiber varied from 6.89 per cent. to 10.47 per cent. with an average of 8.22 per cent. and the selling price ranged from \$35.00 to \$50 and averaged \$43.49 per ton.

COCOANUT OIL MEAL.

Analysis on pages 92 and 93.

There were only 3 samples of this class of feeding stuffs received for analysis during the year representing the output of one firm. This product is being used in increasing amounts and enters into the composition of a few mixed feeds. The analyses showed very little variation in the protein content while the amount of fat varied from 6.01 per cent. to 14.75 per cent. The average results were as follows: protein 23.81 per cent., fat 10.90 per cent., fiber 8.22 per cent. The selling price was \$1.75 for one hundred pounds or \$35 per ton.

CORN OIL MEAL.

Analysis on pages 92 and 93.

Only 1 sample of corn oil meal was secured, indicating that this class of feeding stuffs is not being sold extensively in the State, although it enters into the composition of a number of mixed feeds. The selling price was \$32 per ton and the sample had the following analysis: protein 17.25 per cent., fat 6.87 per cent., fiber 4.88 per cent. which exceeded the guarantees given.

DISTILLERY AND BREWERY BY-PRODUCTS

DISTILLERS DRIED GRAINS LARGELY FROM CORN.

Analysis on pages 92 to 97

There were 43 samples of distillers' dried grains classified as being largely composed of residues from corn received and analyzed, all of which were found to be guaranteed. There were 16 brands included representing the output of 14 firms. One sample was found to be deficient in protein and 11 in fat. The guarantees being in the majority of cases exceeded. Considerable variation was noted in the composition of this class of feeding stuffs due to a large extent to the different processes of manufacture. The protein varied from 24.81 cent. to 36.44 per cent., with an average of 31.12 per cent.; the fat varied from 7.38 per cent. to 13.41 per cent. with an average of 10.48 per cent. and the fiber varied from 7.11 per cent. to 14.45 per cent. with an average of 11.50 per cent. The retail price ranged from \$27.60 to \$42 and averaged \$35.78 per ton.

DISTILLERS' DRIED GRAINS LARGELY FROM RYE.

Analysis on pages 96 and 97.

Three samples of feeding stuffs, representing the by-product from the distilling process where rye formed a greater portion of the mash, were received and the variations noted were as follows: Protein 14.94 per cent. to 23.73 per cent. with an average of 18.62 per cent.; fat 5.27 per cent. to 9.44 per cent., average 7.20 per cent.; fiber 11.72 per cent. to 13.37 per cent., average 12.74 per cent.; selling price \$26 to \$28, average \$26.83 per ton. One sample was deficient in both protein and fat, 1 in protein alone and 1 in fat alone.

DISTILLERS' AND YEAST DRIED GRAINS.

Analysis on pages 96 to 99.

Eight samples of feeding stuffs differing in composition from distillers dried grains from corn and from rye which represented the dried grains recovered from the process of manufacturing yeast and vinegar, were received and analyzed. Five different brands were represented and included mixtures of yeast and distillers' grains and dried grains from the manufacture of yeast and vinegar. This product has an average composition similar to distillers' grains from rye, containing less protein than distillers' grains from corn and

brewers' grains. The average selling price was less than that for distillers' dried grains from corn and in excess of that charged for distillers' dried grains from rye and brewers' dried grains. There was considerable variation noted in the composition of these samples especially in their protein content as follows: The protein ranged from 17.13 per cent. to 21.06 per cent. with an average of 19.01 per cent.; the fat varied from 5.89 per cent. to 6.60 per cent. with an average of 6.36 per cent.; and the fiber ranged from 15.74 per cent. to 18.81 per cent. with an average of 17.51 per cent. The selling price ranged from \$28 to \$40 with an average of \$30.75 per ton. Two were deficient in both protein and fat and protein alone and 4 in fat.

BREWERS' DRIED GRAINS.

Analysis on pages 98 to 101.

Brewers dried grains were represented by 29 samples and 19 brands, 4 samples being deficient in protein. This product shows considerable variation in its composition due to variations in the composition of the mash used in the manufacturing process, as is the case in the preparation of distillers' dried grains. The protein varied from 21.44 per cent. to 33.63 per cent. with an average of 27.06 per cent.; the fat varied from 5.99 per cent. to 8.98 per cent. with an average of 6.93 per cent.; the fiber varied from 12.21 per cent. to 17.84 per cent. with an average of 13.87 per cent. and the selling price varied from \$24 to \$36 and averaged \$29.48 per ton.

MALT SPROUTS.

Analysis on pages 100 and 101.

Only 1 sample of malt sprouts was received during the year representing a shipment which was found to be properly guaranteed and which analyzed as follows: Protein 27.88 per cent., fat 0.83 per cent., fiber 12.88 per cent. The selling price was \$1.50 a hundred pounds or \$30.00 per ton.

MAIZE BY-PRODUCTS

CORN GLUTEN FEED.

Analysis on pages 102 to 105.

There were 37 samples and 14 brands representing the shipments of gluten feed being sold in the State which were received and analyzed during the year. Three of the shipments were not guaranteed and 2 samples were found deficient in protein. In the ma-

jority of cases, however, the guarantees were considerably exceeded. The composition of the samples showed wide variations especially in their protein and fat content due in a large measure to variations in the process of manufacturing where certain portions of the kernel of the corn are included with the by-product from the manufacture of starch or utilized for other purposes. Where a large portion of the horny endosperm of the corn is included, the protein content is higher in this class of feed than if it were not included. The protein varied from 19.69 per cent. to 30.22 per cent. with an average of 25.43 per cent.; the fat varied from 1.33 per cent. to 4.62 per cent. with an average of 2.76 per cent.; the fiber varied from 5.65 per cent. to 9.41 per cent. with an average of 7.26 per cent. The selling price ranged from \$30 to \$46 and averaged \$35.54 per ton.

HOMINY FEED.

Analysis on pages 104 to 107.

The number of samples received representing the hominy feed being sold in the State was 19 being the output of 11 firms and which were the by-product from both white and yellow corn. Two samples were found to be deficient in fat. They were quite uniform in their composition and character, the variations in the analyses being as follows: The lowest protein 10.44 per cent., highest 13.63 per cent. with an average of 11.52 per cent.; lowest fat 5.57 per cent., highest 8.15 per cent., average 6.84 per cent.; lowest fiber 2.53 per cent., highest 5.59 per cent., average 4.50 per cent. The selling price ranged from \$31 to \$46 and averaged \$38.64 per ton.

CORN BRAN.

Analysis on pages 106 and 107.

The corn bran being sold in the State was represented by 7 samples and 6 brands, no deficiencies being noted. One sample was found to contain a small amount of corn siftings. The variations in composition were as follows: protein lowest 9.00 per cent., highest 12.06 per cent., average 10.63 per cent.; fat lowest 5.76 per cent., highest 12.57 per cent., average 8.47 per cent.; fiber, lowest 5.60 per cent., highest 11.56 per cent., average 7.98 per cent. The selling price varied from \$25 to \$37 and averaged \$30.57 per ton.

CORN FEED MEAL.

Analysis on pages 108 and 109.

Only 3 samples of corn feed meal were secured by special agents representing 3 brands which were found to be guaranteed. One sample was deficient in fat. The guarantees in other cases were ex-

ceeded. The protein varied from 8.25 per cent. to 9.50 per cent., with an average of 9.00 per cent.; fat varied from 3.53 per cent. to 3.89 per cent. with an average of 3.66 per cent.; fiber varied from 2.14 per cent. to 4.51 per cent. with an average of 2.95 per cent., and the selling price varied from \$36 to \$43 with an average of \$38.60 per ton.

WHEAT OFFALS

LOW GRADE FLOUR.

Analysis on pages 108 and 109.

There were 4 samples of wheat offals received which were classed as low grade flour representing as many brands, one of which was not guaranteed. In those samples where guarantees were found upon sacks or attached cards, as compared with the analysis, no deficiencies were noted. The results secured were as follows: the protein varied from 15.25 per cent. to 18.50 per cent., with an average of 16.77 per cent.; the fat varied from 3.81 per cent. to 5.47 per cent. with an average of 4.62 per cent.; and the fiber varied from 1.05 per cent. to 2.52 per cent. with an average of 1.97 per cent. The selling price was from \$1.65 to \$2.20 with an average of \$1.83 a hundred pounds or \$36.60 per ton.

WHEAT MIDLINGS.

Analysis on pages 108 to 111.

The number of wheat offals classed as wheat middlings which were received was 15, 11 being found labeled with the guaranteed analysis. Of the number guaranteed, 2 were found to be deficient in protein. Fifteen different kinds or brands from as many manufacturers were represented. Small amounts of ground grain screenings were found present in 4 of the samples and the labeling should have indicated the presence of screenings. Where wheat middlings are pure and free from screenings, guaranteeing is not required, however, the presence of such materials make it necessary that all sacks or attached cards be labeled as in the case of mixed feeds. The protein varied from 14.06 per cent. to 18.56 per cent., with an average of 16.61 per cent.; the fat varied from 3.66 per cent. to 5.96 per cent. with an average of 4.83 per cent.; the fiber varied from 2.78 per cent. to 8.58 per cent. with an average of 5.15 per cent. The selling price ranged from \$30 to \$48 and averaged \$35.93 per ton.

WHEAT MIDLINGS WITH ADMIXTURES.

Analysis on pages 110 to 115.

The samples of wheat offals which were received and classified as wheat middlings with admixtures, including those samples of wheat middlings to which had been added ground grain screenings, numbered 30 and represented 24 different brands. This class also included the by-products feeds from the manufacture of tin plate composed of wheat middlings and palm oil and known as "Refuse" or "Cleaning Middlings." One sample of the wheat middlings with ground screenings contained a trace of whole weed seeds. A few samples of the cleaning middlings also contained rye middlings with the palm oil and in 1 sample a small amount of sawdust was found present. In two samples, small amounts of ground cobs were also detected. Three samples were deficient in both protein and fat, 4 in protein alone and 3 in fat alone. The protein varied from 13.13 per cent. to 19.19 per cent. with an average of 16.56 per cent.; the fat varied from 3.60 per cent. to 8.93 per cent. with an average of 5.74 per cent.; the fiber varied from 2.46 per cent. to 10.13 per cent. with an average of 5.91 per cent. The selling price ranged from \$22 to \$48 and averaged \$37.70 per ton.

MIXED FEED: WHEAT BY-PRODUCTS.

Analysis on pages 114 to 117.

Ten samples of wheat offal feeds of this class being mixtures of wheat bran and wheat middlings were received, all but one being guaranteed. Seven brands from as many different shipments are included. Six of the samples included the so called "Mill Run of Ground Grain Screenings," one of these containing also a small amount of whole weed seeds. The protein varied from 14.88 per cent. to 17.81 per cent. with an average of 16.21 per cent.; the fat varied from 3.60 per cent. to 6.17 per cent. with an average of 5.21 per cent.; the fiber varied from 7.32 per cent. to 8.82 per cent. with an average of 8.07 per cent. The selling price varied from \$32 to \$40 and averaged \$36.10 per ton.

WHEAT BRAN.

Analysis on pages 116 to 119.

The wheat bran samples secured numbered 25, 4 of which were not guaranteed. There were 21 brands represented. Several of these samples as will be noted were found to contain varying amounts of ground grain screenings and one sample contained a large amount of whole weed seeds. The shipments sampled in which screenings were present should have been labeled "Wheat Bran with Ground Screenings" instead of being sold as straight wheat bran. One was

found deficient in protein. The protein varied from 14 per cent. to 17.81 per cent. with an average of 15.55 per cent.; the fat varied from 3.67 per cent. to 6.26 per cent. with an average of 4.95 per cent.; the fiber varied from 6.41 per cent. to 11.38 per cent. with an average of 9.54 per cent. The selling price ranged from \$26 to \$34 and averaged \$29.80 per ton.

WHEAT BRAN WITH ADMIXTURES.

Analysis on pages 118 to 123.

The number of samples representing wheat bran which contained varying amounts of ground screenings secured was 28, all with one exception being from shipments which were properly guaranteed. Twenty-four different brands from as many firms were received. No deficiencies were found upon analysis. One sample contained a small amount of whole weed seeds which were introduced with the screenings. One sample was wheat bran containing a small amount of corn bran which did not vary in its composition materially from wheat bran with screenings. The protein varied from 14.00 per cent. to 17.94 per cent. with an average of 15.89 per cent.; the fat varied from 3.95 per cent. to 6.43 per cent. with an average of 4.81 per cent.; the fiber varied from 7.97 per cent. to 11.54 per cent. with an average of 9.71 per cent. The selling price ranged from \$25 to \$36 with an average of \$28.46 per ton.

RYE OFFALS

RYE MIDLINGS.

Analysis on pages 122 and 123.

Two samples of rye middlings from different mills representing this class of feeds were received being properly guaranteed and labeled.

The results secured gave the following average results: protein 17.03 per cent., fat 3.34 per cent. and fiber 5.05 per cent. The selling price was \$1.58 for one hundred pounds or \$31.60 per ton.

RYE MIDLINGS WITH ADMIXTURES.

Analysis on pages 122 and 123.

Only 2 samples and brands of this class of rye offals were secured both being properly labeled and guaranteed which contained small amounts of the so called "Mill Run of Ground Grain Screenings." The average analysis of these samples was as follows: Protein 16.47 per cent., fat 3.42 per cent. and fiber 5.09 per cent. The selling price was \$1.83 for a hundred pounds or \$36.60 per ton.

WHEAT AND RYE OFFALS

Analysis on pages 122 and 123.

This class of feed is represented by only one sample being a mixture of wheat and rye middlings. The guarantees given were sustained, the sample analyzing as follows: protein 15.38 per cent., fat 4.63 per cent. and fiber 4.33 per cent. The selling price was \$1.70 for a hundred pounds or \$34.00 per ton.

OAT BY-PRODUCTS

OAT FEEDS.

Analysis on pages 122 to 125.

There were 3 brands of oat feed found being sold in the State and 5 samples were secured for analysis. This product consisted for the most part of oat hulls with a small amount of oat middlings and shorts. Four of the shipments were guaranteed and in one case the fat was found to be deficient. The protein varied from 5.46 per cent. to 8.13 per cent. with an average of 6.42 per cent.; the fat varied from 1.48 per cent. to 3.26 per cent. with an average of 2.40 per cent.; the fiber varied from 21.75 per cent. to 26.92 per cent. with an average of 25.12 per cent. The selling price showed considerable variation being from \$22 to \$32 and averaged \$26 per ton.

OAT HULLS.

Analysis on pages 124 and 125.

Only one sample of oat hulls was secured which analyzed as follows: Protein 4.88 per cent., fat 1.90 per cent. and fiber 27.73 per cent. The selling price was given at \$1.30 a hundred pounds or \$26.00 per ton.

BUCKWHEAT OFFALS

BUCKWHEAT MIDDINGS.

Analysis on pages 124 and 125.

Three samples of buckwheat offals were secured which from their composition were classified as buckwheat middlings. As this product is not required to be labeled only one shipment was found to be guaranteed. The protein varied from 26.06 per cent. to 28.88 per cent. with an average of 27.73 per cent.; the fat varied from 7.09 per cent. to 7.99 per cent. with an average of 7.64 per cent.; the fiber varied from 4.77 per cent. to 9.39 per cent. with an average of 6.54 per cent. The selling price was from \$36 to \$38 and averaged \$37 per ton.

BUCKWHEAT FEED.

Analysis on pages 124 and 125.

In this class of feeding stuffs were placed the two samples of different brands which were buckwheat middlings containing a considerable proportion of buckwheat hulls and which analyzed from 10.00 per cent. to 19.88 per cent. protein, the average being 14.94 per cent.; the fat varied from 2.44 per cent. to 5.30 per cent. with an average of 3.87 per cent. and the fiber varied from 21.41 per cent. to 37.46 per cent. with an average of 29.43 per cent. The selling price was from \$1.25 to \$1.65 and averaged \$1.45 a hundred pounds or \$29.00 per ton. Both samples were guaranteed which were exceeded upon analysis.

ALFALFA MEALS

Analysis on pages 124 to 127.

The number of samples of alfalfa meals secured was 16, 4 of which were not guaranteed as required being shipments from 12 different firms representing 13 brands. Of the number guaranteed, no deficiencies were noted. Alfalfa Meal varies considerably in its composition especially with respect to protein and fiber. The protein varied from 13.94 per cent. to 19.50 per cent. with an average of 15.61 per cent.; the fat varied from 1.20 per cent. to 3.13 per cent. with an average of 1.81 per cent.; the fiber varied from 19.08 per cent. to 34.55 per cent. with an average of 28.68 per cent. The selling price was from \$26 to \$38 and averaged \$31.50 per ton.

DRIED BEET PULP

Analysis on pages 126 to 129.

The samples of dried beet pulp numbered 10 and represented 3 different brands. All were guaranteed as required, no deficiencies being noted and in every case the guarantees were exceeded. This product analyzed comparatively uniform, the following variations being noted: Lowest protein 8.81 per cent., highest 11.19 per cent. with an average of 9.89 per cent.; lowest fat 0.55 per cent., highest 1.37 per cent., average 0.93 per cent.; lowest fiber 17.94 per cent., highest 19.88 per cent. with an average of 18.80 per cent. The selling price was from \$28 to \$35 and averaged \$30.80 per ton.

MIXED FEEDS—PROPRIETARY AND MISCELLANEOUS

More than one-half or 686 of the samples of feeding stuffs received and analyzed during the year represented the various kinds and brands of mixed feeds being sold in the State and are, therefore, classified under the heading of "Mixed Feeds." Most of those samples represented mixed feeds having distinct brand or proprietary names and they included 358 different brands or kinds. All but 25 of these samples were from shipments which were found labeled with the guaranteed analysis as required. Of the number not guaranteed, there were several composed of whole grain chop feeds where the guaranteed analysis is not required. Considerable variation was noted in their chemical analysis and composition as would be expected from this number of different brands being found offered for sale in the State. All the samples of mixed feeds were placed in ten groups or classes according to their analysis and composition and for the purpose for which they were sold. Each of these classes or groups will in the following discussion be considered separately and these groups or classes, together with the number of samples in each, are as follows: Proprietary Dairy Feeds, 61; Proprietary Dairy Feeds with Molasses, 135; Proprietary Stock, Horse and Mule Feeds, 103; Proprietary Stock, Horse and Mule Feeds with Molasses, 170; Proprietary Calf Meals, 13; Proprietary Swine Feeds, 8; Proprietary Chop Feeds, 30; Miscellaneous Chop Feeds, 20; Miscellaneous Feeds, 3, and Proprietary Poultry Foods, 143.

PROPRIETARY DAIRY FEEDS.

Analysis on pages 128 to 145.

The number of samples of feeding stuffs received and classified as Proprietary Dairy Feeds was 61, representing 21 different brands, 3 of these being not labeled with the guaranteed analysis as required. One sample was found deficient in both protein and fat, 4 in protein alone and 4 in fat alone. There was considerable variation in the analysis of this class of feeds which were of the more concentrated type, ranging from 13.00 per cent. to 29.47 per cent. protein. They were largely mixtures of by-product feeds such as cottonseed meal, linseed meal, distillers dried grains, gluten feed, wheat offals, ground grain screenings, etc., with varying amounts of ground grains. With the exception of the deficiencies noted, a large proportion of the samples exceeded their guarantees upon analysis. Only 7 were guaranteed with both minimum and maximum guarantees for protein. The composition claimed for these feeds were as a rule found to be as certified. Four samples upon examination were found to contain small amounts and traces of small whole weed seeds. The general character and condition of this class of feeds was good. The selling price ranged from \$29 to \$44 per ton.

PROPRIETARY DAIRY FEEDS WITH MOLASSES.

Analysis on pages 144 to 177.

There were 135 samples of feeds received from the Special Agents and classified as Proprietary Dairy Feeds with Molasses as they were of the more concentrated type of feeding stuffs and contained molasses as one of the ingredients. The protein in these feeds varied from 12.69 per cent. to 28.69 per cent. The selling price ranged from \$20 to \$40 per ton. Thirty-eight different brands and kinds were represented. All the samples were from shipments which were found labeled with the guarantees as required. Upon analysis one was found to be deficient in both protein and fat, 19 in protein alone and 18 in fat alone. The microscopical examination of the samples of these feeds showed, as will be noted by referring to the large Table (No. IV) several cases of variations from the composition as claimed, where the certified ingredients or additional products were either found present or absent. Nearly one-half or 59 of the samples contained traces of small amounts of small whole weed seeds, no doubt introduced with the ground grain screenings used in their preparation. While large amounts of whole weed seeds were not noted as shown in previous reports for molasses dairy feeds, there is considerable room for improvement, in compliance with that portion of the feeding stuffs law which prohibits the

presence of whole weed seeds. One of the samples represented a shipment which was charred and in a damaged condition, undoubtedly caused by the use of salvage materials or damaged by fire. The ingredients of which these dairy feeds with molasses were for the most part composed included cottonseed meal, linseed meal, wheat and rye offals, oat by-products, corn gluten feed, distillery and brewery by-products, ground grain screenings, buckwheat offals, palm nut meal, cocoa shell meal, ground grains, molasses and salt.

PROPRIETARY STOCK, HORSE AND MULE FEEDS.

Analysis on pages 178 to 201.

The mixed feeds being sold in the State of the less concentrated type than in the foregoing two classes and intended to be largely for the feeding of horses and mules, which were classified as Proprietary Stock, Horse and Mule Feeds, are represented by 103 samples which were received during the year. All of these were from shipments having guaranteed analysis upon sacks or cards, 48 different brands being included. The results of analysis show a variation in protein from 8.17 per cent. to 8.83 per cent. One sample was found deficient in both protein and fat, 3 in protein alone and 7 in fat alone. There were not as many variations from the certified composition in this class of feeds as was observed in the samples of molasses dairy feeds, although there were several samples in which the full list of ingredients were not clearly shown and in which a few of the ingredients claimed were not detected. In several samples where Barley was claimed to be present, it was not included. Oat hulls were used in a number of brands of this class of feed and in many cases the content of fiber exceeded 9 per cent., the amount permitted where this by-product is used as an ingredient. This class of feed was, with 3 exceptions, free from whole weed seeds. The ingredients of which they were composed included whole and cracked corn, barley, oats and other grains, oat by-products, corn by-products, wheat and rye offals, alfalfa, linseed meal, cottonseed meal and ground grain screenings. There was a considerable variation in the retail price which varied from \$27 to \$48 per ton.

PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES.

Analysis on pages 200 to 223.

The various brands of so called "Molasses Feeds" being sold in the State of a type less concentrated than the Dairy Feeds and sold more especially as Horse and Mule Feeds, were represented by 170 samples and were classified as Proprietary Stock, Horse and Mule Feeds and Molasses. All but 5 shipments were found to be guaran-

teed and the results of analysis showed 1 sample deficient both in protein and fat, 6 in protein alone and 10 in fat alone. Eighty-six different brands, the output of 55 manufacturing firms, are represented by the samples received. As will be noted, more samples of this class of feeds were secured than of the other groups. Two-thirds of the samples of Stock, Horse and Mule Feeds or 112 were mixtures of whole or cracked corn, oats, alfalfa meal, and molasses, 15 also containing barley. Twelve of the samples were found to be musty and in a damaged condition due to faulty shipments and the use of inferior molasses. In addition to this number, 5 samples were infected with small insects and meal mites and 8 samples contained a small amount of whole weed seeds. With the exception of the damaged samples referred to, there was not a great variation in composition from the ingredients claimed. The protein content showed a variation of from 4.48 per cent. to 19.06 per cent. and the selling price ranged from \$28 to \$45 per ton. Several of the samples representing more especially one brand of feed containing Oat Hulls as an ingredient, contained fiber in excess of the amount permitted. Owing to the several samples of feeds which were damaged, it cannot be said that the character of this class of feeds is above criticism, however, as will be noted by referring to the large Table (No. IV) many of the brands represented were correctly guaranteed and contained the ingredients claimed.

PROPRIETARY CALF MEALS.

Analysis on pages 222 to 225.

The calf meals being sold in the State are represented in this report by 13 samples and 7 brands. All were found to be guaranteed and only one was deficient in fat. The remaining samples considerably exceeded their guarantees especially in protein. These meals were concentrated containing from 18.88 per cent. to 34.13 per cent. protein and sold for from \$50 to \$80 per ton. Quite a variety of ingredients entered into the composition of these Meals as will be noted. The samples were clean in their general appearance and contained the ingredients claimed.

PROPRIETARY SWINE FEEDS.

Analysis on pages 224 to 227.

Those brands of feeds which were labeled and advertised especially for swine feeding numbered 8 samples and 7 brands. These feeds are also concentrated in their nature and ranged from 13.39 per cent. to 25.75 per cent. in protein. The selling price ranged from \$30 to \$37 per ton. Two samples were found deficient in fat. The

ingredients of which this group of feeds were composed included the following: Corn meal, corn gluten feed, cotton seed meal, linseed meal, corn oil cake meal, tankage, wheat offals, distillery by-products and ground grain screenings. One sample was found to contain a form of peat or humus which the Department considers objectionable and its use in violation of the law. The composition of these samples was found to be as certified.

PROPRIETARY CHOP FEEDS.

Analysis on pages 226 to 233.

There were 30 samples representing 18 brands received and classified as Proprietary Chop Feeds, all shipments were found to be labeled with the guaranteed analysis. One was deficient in protein and 6 deficient in fat. These feeds were composed for the most part of ground and cracked grains and wheat, rye and oat offal feeds, ranging in protein from 7.75 per cent. to 12.56 per cent and selling at from \$30 to \$43 per ton. Eleven of the samples were found to vary slightly from the guarantees claimed, the remaining feeds being composed of the ingredients advertised.

MISCELLANEOUS CHOP FEEDS.

Analysis on pages 232 to 235.

In this class of feeding stuffs were placed 20 samples of feeds including corn chop, barley chop, corn and oat chops, corn, oats and barley chops and those chop feeds composed of mixtures of whole grains and wheat, corn and oat offal products. The results of analyses of each of these grades of chop feeds are shown in the large table (No. IV). A few samples were found to contain traces and small amounts of whole weed seeds and samples represented shipments not guaranteed, however, in a number of these cases as they were mixtures of whole grains, the guaranteed analysis was not required.

MISCELLANEOUS FEEDS.

Analysis on pages 234 to 237.

There were 3 feed products received and classified as Miscellaneous including 2 samples of wheat screenings and 1 sample of flaxseed meal. The wheat screenings were found not labeled with the guaranteed analysis and to contain a large amount of whole weed seeds. The average analysis being as follows: Protein 12.78 per cent., fat 2.73 per cent., fiber 3.89 per cent. The selling price was given as \$1.75 a hundred pounds or \$35.00 per ton. The sample of

flaxseed meal had the following analysis: Protein 18.32 per cent., fat 38.88 per cent. and fiber 5.45 per cent. The retail price was \$8.00 a hundred pounds or at the rate of \$160.00 per ton.

PROPRIETARY POULTRY FOODS.

Analysis on pages 236 to 265.

The Proprietary Poultry Foods sold in Pennsylvania during 1916 are represented by 143 samples and 113 brands, the output of 63 manufacturing firms. Five samples were from shipments which were not guaranteed for analysis and composition. Of the number guaranteed, 1 was deficient in both protein and fat, 5 in protein alone and 12 in fat alone, the same number of deficiencies as were observed in 1915. The number of samples of poultry foods represented one-fourth of the number of mixed feeds received and analyzed during the year. Forty-one samples or 28 per cent. were found to contain from traces to large amount of whole weed seeds, 7 of this number contained large amounts of weed seeds and 1 sample was composed of more than one-fourth its weight of whole weed seeds largely of pigeon grass together with corn, Kaffir corn, wheat and millet. With the exception of these samples which contained weed seeds, the list of ingredients as a rule were upon microscopical examination found to be as claimed. The results of the year's work, however, indicate that there is still room for improvement in the character and freedom from weed seeds in this class of products. They were composed for the most part of whole and cracked grains with small amounts of grit. A wide variation was noted in their composition especially with respect to the protein content which ranged from 9 per cent. to 30.75 per cent. The average protein content, however, averaged 14.17 per cent. The selling price also showed a wide range of from \$34.00 to \$142.80 per ton, the average selling price for all brands of poultry foods represented by the samples included being \$48.56. The analysis and composition of these foods are shown in detail in the large Table (No. IV).

ANIMAL BY-PRODUCTS

Analysis on pages 264 to 267.

The number of samples of Meat Scraps, Meat and Bone Scraps, Fish Scraps and Tankage classified as "Animal By-Products" received during the year was 38, all being from guaranteed shipments.

A large number of deficiencies were noted in this class of products, 1 being deficient in both protein and fat, 12 in protein alone and 2 in fat alone. Thirty different brands, the output of 20 firms were represented. The protein content ranged from 27.75 per cent. to 67.38 per cent. and the selling price was from \$40 to \$100 per ton. A few samples as will be noted contained bone and should have been labeled "Meat and Bone Scrap." One-third of the number examined were labeled with both minimum and maximum guarantees for protein and with one exception none of the higher guarantees were sustained, in some instances the protein failing to meet the minimum guarantees. Their general character aside from the few deficiencies referred to was good and the samples represented clean products.

CONDIMENTAL STOCK AND POULTRY FOODS

Analysis on pages 268 and 269.

Only 3 samples representing products composed for the most part of condimental substances were sampled during 1916, one of these not being sold as a feed or food. They were all guaranteed with the analysis and list of ingredients as required and no deficiencies were noted. The protein content was from 14.13 per cent. to 26.63 per cent. The selling price for this class of products when based on large amounts is high amounting to more than \$100 for a ton.

ANALYSIS OF FEEDING STUFFS COLLECTED BY SPECIAL AGENTS

The analytical results and the microscopical examinations of each of the official samples of feeding stuffs obtained by special agents during 1916, have been tabulated and are included in the following Table (No. IV). They have been arranged in classes or groups as shown in Table (No. II), like feeds and brands being placed together for comparison and averaging. Where 2 or more samples of the same kind, brand or class of products were analyzed, the average of the results secured is included. The samples are placed in alphabetical order of the names of Manufacturers or Importers in each group or class, and the information includes the name and place of

the party from whom the sample was secured, together with the results of analyses, the guarantees found upon sacks or attached cards, the selling price at the rate of 100 pounds or a ton, the list of ingredients claimed and the results of microscopical examinations. In referring to the following Table, the various feeds will be found under the following general headings and sub-headings.

OIL CAKE MEALS including cottonseed meal, new process and old process linseed meal, cocoanut oil meal and corn oil meal.

DISTILLERY AND BREWERY BY-PRODUCTS including distillers' dried grains largely from corn and rye, distillers' and yeast dried grains, brewers dried grains and malt spouts.

MAIZE BY-PRODUCTS including corn gluten feed, hominy feed, corn bran and corn feed meal.

WHEAT OFFALS including low grade flour, wheat middlings, wheat middlings with admixtures, mixed feed: wheat by-products, wheat bran and wheat bran with admixtures.

RYE OFFALS including rye middlings and rye middlings with admixtures.

WHEAT AND RYE OFFALS including wheat and rye middlings.

OAT BY-PRODUCTS including oat feeds and oat hulls.

BUCKWHEAT OFFALS including buckwheat middlings and buckwheat feed.

ALFALFA MEAL.

DRIED BEET PULP.

MIXED FEEDS: PROPRIETARY AND MISCELLANEOUS, including proprietary dairy feeds, proprietary dairy feeds with molasses, proprietary stock, horse and mule feeds, proprietary stock, horse and mule feeds with molasses, proprietary calf meals, proprietary swine feeds, proprietary chop feeds, miscellaneous chop feeds, miscellaneous feeds and proprietary poultry foods.

ANIMAL BY-PRODUCTS.

CONDIMENTAL STOCK AND POULTRY FOODS.

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	OIL CAKE MEALS.				
	COTTONSEED MEALS.				
2066	C. V. ADAMS, LANCASTER, PA. Cottonseed meal,	Newville, S. E. Shenk & Sons.	Per ct. 8.60	Per ct. 37.38	Per ct.
1494	THE J. E. BARTLETT CO., JACK- SON, MICH. Bartlett's Michigan Farmer Brand Choice.	Evans City, George Ifft & Son.	8.24	44.56	41-48
2320	Bartlett's Michigan Farmer Brand Choice.	Scranton, Miner-Hillard Mfg. Co.	8.60	38.38	41-48
		Average,	8.42	41.47	.....
1401	BRAZOS VALLEY COTTON OIL CO., WACO, TEXAS. Cottonseed meal,	Beaver Falls, Dodds & Garrett.	6.22	45.00	45.00
1845	F. W. BRODE & CO., INC., MEM- PHIS, TENN. Dove Brand Prime,	Paoli, Edward F. Brack- en.	9.82	35.56	38.63
2191	Dove Brand Prime,	Wellsboro, Equity Co-Op- erative Exchange.	9.53	37.63	38.63
2175	Dove Brand Prime,	Williamson, S. F. Peck- man.	7.98	38.94	38.63
2261	Dove Brand Prime,	Laceyville, A. L. Vander- vort.	6.58	38.63	38.63
		Average,	8.47	37.69	.....
2248	Owl Brand High Grade,	Towanda, Dayton Milling Co.	8.60	39.25	41.00
1384	Owl Brand High Grade,	Quakertown, S. S. Det- weiler.	7.32	40.31	41.00
1759	Owl Brand High Grade,	Coudersport, Gates Bros.,	8.20	41.00	41.00
1440	Owl Brand High Grade,	Chalfonte, F. D. Hartzel's Sons.	8.50	37.25	41.00
1338	Owl Brand High Grade,	New Kensington, A. H. Klugh.	8.16	36.25	41.00
1863	Owl Brand High Grade,	Farrell, J. B. Roux,	8.72	40.75	41.00
1469	Owl Brand High Grade,	Pittsburgh, The I. W. Scott Co.	7.34	37.50	41.00
1490	Owl Brand High Grade,	Quakertown, A. K. Smith.	7.91	39.94	41.00
		Average,	8.09	39.03	.....
	THE BUCKEYE COTTON OIL CO., CINCINNATI, O.				
2153	Buckeye Prime,	Knoxville, J. H. Burch,	8.73	40.75	38.62
2117	Buckeye Prime,	Erie, Erie Milling & Sup- ply Co.	8.57	37.69	38.62
2354	Buckeye Prime,	Honesdale, Honesdale Milling Co.	8.34	39.81	38.62
		Average,	8.54	39.42	.....
1852	CISCO OIL MILL, CISCO, TEXAS. Cottonseed meal,	Berwyn, William H. Fritz.	9.41	41.38	44.50

FEEDING STUFFS COLLECTED IN 1916.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 10.51	Per ct.	Per ct. 12.56	Per ct.	\$41 00	.....	Cottonseed meal,	2066
7.24	7-12	6.45	6-10	2 10	.....	Cottonseed meal,	1494
6.27	7-12	11.27	6-10	2 50	.....	Cottonseed meal and excessive amount of hulls,	2320
6.76	.....	8.86	.....	2 30	.....	.....	.....
7.33	6.00	9.98	9.00	1 85	.....	Cottonseed meal and excessive amount of hulls,	1401
6.23	6.00	12.69	10.00	2 40	Decorticated seed. cotton-	Cottonseed meal and excessive amount of hulls,	1845
6.74	6.00	11.47	10.00	2 30	Decorticated seed. cotton-	Cottonseed meal and excessive amount of hulls,	2191
6.03	6.00	11.39	10.00	43 00	Decorticated seed. cotton-	Cottonseed meal and excessive amount of hulls,	2175
6.22	6.00	12.16	10.00	2 40	Decorticated seed. cotton-	As certified,	2261
6.31	.....	11.92	.....	46 25	.....	.....	.....
7.43	6.00	9.53	10.00	2 50	Made seed. from cotton	As certified,	2248
6.38	6.00	10.52	10.00	39 00	Made seed. from cotton	Cottonseed meal and excessive amount of hulls,	1384
8.32	6.00	9.19	10.00	2 20	Made seed. from cotton	As certified,	1759
7.04	6.00	10.80	10.00	2 00	Made seed. from cotton-	Cottonseed meal and excessive amount of hulls,	1440
7.17	6.00	13.31	10.00	2 35	Made seed. from cotton	Cottonseed meal and excessive amount of hulls,	1338
6.30	6.00	9.32	10.00	38 00	Made seed. from cotton-	As certified,	1863
7.97	6.00	11.97	10.00	2 15	Made seed. from cotton-	Cottonseed meal and excessive amount of hulls,	1469
6.43	6.00	10.32	10.00	1 95	Made seed. from cotton-	Cottonseed meal and excessive amount of hulls,	1496
7.13	.....	10.62	.....	42 50	.....	.....	.....
6.76	6.00	10.58	12.00	2 00	.....	Cottonseed meal,	2153
6.14	6.00	11.68	12.00	2 10	.....	Cottonseed meal and excessive amount of hulls,	2117
6.65	6.00	10.15	12.00	2 40	.....	Cottonseed meal,	2354
6.52	.....	10.80	.....	2 17	.....	.....	.....
6.94	6.50	9.90	8.00	2 10	.....	Cottonseed meal,	1852

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	S. P. DAVIS, LITTLE ROCK, AR-KANSAS.		Per ct.	Per ct.	Per ct.
2166	Good Luck Brand,	Elkland, Elkland Roller Mills.	8.15	40.81	41.00
2136	Good Luck Brand,	Lancaster, John W. Eshelman.	7.74	44.56	41.00
1501	Good Luck Brand,	Mars, Mars Milling & Feed Co.	8.36	41.06	41.00
1267	Good Luck Brand,	Johnstown, Swope Bros.,	7.86	40.19	41.00
		Average,	8.02	41.66	.....
2114	Veribest Brand,	Erie, Erie Milling & Supply Co.	8.40	37.50	38.50
	EAST ST. LOUIS COTTON OIL CO., ST. LOUIS, ILL.				
1831	Cottonseed meal,	St. Marys Hall, Kaul & Hyde Co.	8.37	40.94	41-43
1493	Cottonseed meal,	Evans City, George Ifft & Son.	7.42	41.19	41-43
		Average,	7.89	41.07	.....
	H. F. H. EBERTS, LITTLE ROCK, ARK.				
1533	Milko,	Greensburg, McFarland Supply Co.	7.53	41.19	38.55 to 43.00
	GUS. GRONAUER & CO., MEMPHIS, TENN.				
1637	Globe Brand,	Bradford, L. A. Fischer & Co.	7.75	41.69	41-43
	HUMPHREYS-GODWIN CO., MEMPHIS, TENN.				
1941	Danish Brand,	New Castle, City Roller Mills.	9.78	36.88	36. to 38.5
1642	Dixie Brand,	Smethport, F. A. Green,	7.56	38.94	38.62 to 43.00
1467	Dixie Brand,	Erie, Nickel Plate Flour Mills.	8.64	42.63	38.62 to 43.00
1763	Dixie Brand,	Reynoldsville, Patton & Daugherty.	9.63	38.88	38.62 to 43.00
1836	Dixie Brand,	St. Marys, Leonard Ritter.	6.73	44.44	38.62 to 43.00
		Average,	8.14	41.22	.....
1910	Forfat Brand,	Wayne, I. W. Conner & Co.	9.04	38.75	38.55 to 41.
2145	Forfat Brand,	Canton, H. Rockwell & Son.	8.66	38.63	38.55 to 41.
2375	Forfat Brand,	East Stroudsburg, J. M. Wyckoff.	7.54	37.81	38.55 to 41.
		Average,	8.41	38.40	.....
	IMPERIAL COTTO MILLING CO., MEMPHIS, TENN.				
1281	Imperial Cotto Brand Choice,	Windber, Claude Davis...	8.13	43.00	41-45
	LANIER BROTHERS. NASHVILLE, TENN.				
1755	Jersey Brand,	Sunbury, Blank & Gottshall.	7.85	38.56	38.62
1725	Jersey Brand,	Somerset, John G. Emert,	9.75	38.13	38.62
2072	Jersey Brand,	Mechanicsburg, A. B. Harnish.	8.86	37.81	38.62

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.35	6.00	10.06	9.00	2 20	Decorticated seed, cotton-	As certified,	2166
7.47	6.00	6.45	9.00	47 00	Decorticated seed, cotton-	As certified,	2136
7.11	7.00	9.42	9.00	2 10	Decorticated seed, cotton-	As certified,	1501
7.50	7.00	9.70	9.00	2 00	Decorticated seed, cotton-	As certified,	1267
7.36	.....	8.90	.....	43 25			
7.24	6.00	12.41	10.00	2 10	Decorticated seed, cotton-	As certified,	2114
6.99	6-8	9.91	10-12	2 10	.....	Cottonseed meal,	1831
8.30	6-8	8.98	10-12	2 10	.....	Cottonseed meal,	1493
7.65	.....	9.44	.....	2 10			
7.64	5.5-9	9.31	8-10	2 25	Made from pressed cotton seed.	As certified,	1533
7.31	6-7	9.27	8-9	1 85	Pressed from decorticated cottonseed.	As certified,	1637
6.48	5-6	12.81	12-15	34 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	1941
6.83	6-8	11.89	8-12	2 10	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	1642
6.70	6-8	8.12	8-12	1 95	Made from pressed cottonseed.	As certified,	1467
6.53	6-8	9.91	8-12	1 80	Made from pressed cottonseed.	As certified,	1768
9.34	6-8	6.60	8-12	2 00	Made from pressed cottonseed.	As certified,	1836
7.35	.....	9.13	.....	1 96			
7.22	6-8	10.86	8-12	2 25	Made from pressed cottonseed.	As certified,	1910
6.68	6-8	11.53	8-12	2 00	Made from pressed cottonseed.	Cottonseed meal and excessive amount of hulls.	2145
6.53	6-8	11.82	8-12	2 40	Made from pressed cottonseed.	As certified,	2375
6.81	.....	11.40	.....	2 22			
7.95	8.00	9.44	9.00	2 00	.....	Cottonseed meal,	1281
6.56	6.00	10.80	10.00	1 95	Made from decorticated cottonseed.	As certified,	1785
6.88	6.00	10.28	10.00	2 10	Made from decorticated cottonseed.	As certified,	1725
7.43	6.00	12.41	10.00	40 00	Made from decorticated cottonseed.	As certified,	2072

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1544	Jersey Brand,	Scottdale, J. E. Pritts,...	Per ct. 9.35	Per ct. 39.00	Per ct. 38.62
2056	Jersey Brand,	Carlisle, W. S. Stuart,...	8.75	37.81	38.62
1698	Jersey Brand,	Lock Haven, E. E. Wentz.	9.01	38.19	38.62
		Average,	8.93	38.25	.....
1461	THE LARROWE MILLING CO., DETROIT, MICH. Staff Brand High Grade,	Uniontown, King Bros.,	6.95	40.00	41.00
2365	L. B. LOVITT & CO., MEMPHIS, TENN. Memphis Brand,	Midway, D. G. Bamford Milling Co.	7.98	38.75	38.62
1909	Memphis Brand,	Wayne, I. W. Conner & Co.	9.20	34.75	38.62
2174	Memphis Brand,	Chambersburg, Diehl, Omwake & Diehl.	7.22	39.44	38.62
		Average,	8.13	37.65	.....
1952	J. M. MacDONALD, CINCINNATI, OHIO. Kineda Prime,	Elwood City, W. W. Davidson.	8.79	37.06	38.60
2077	Kineda Prime,	Newport, W. H. Kepner,	9.61	38.19	38.60
1955	Kineda Prime,	New Castle, P. Wagner & Son.	8.14	37.81	38.60
		Average,	8.84	37.69	.....
1670	Macado,	Philadelphia, Fred L. Lemon.	7.84	41.94	41.00
1657	Macado,	Washington, Washington Milling Co.	8.23	43.06	41.00
		Average,	8.03	42.50	.....
2296	MERIDIAN GRAIN & ELEVATOR CO., MERIDIAN, MISS. Tip Top Choice,	Turtle Creek, F. J. Riddle.	8.36	44.50	41.00
2370	Tip Top Choice,	Etna, John E. Ross,	8.21	45.13	41.00
		Average,	8.28	44.82	.....
1786	C. L. MONTGOMERY & CO., MEMPHIS, TENN. Canary Brand High Grade,	Sunbury, Blank & Gottshall.	8.38	34.94	38.62 to 43.
1901	Canary Brand High Grade,	Malvern, Thomas Haines Co.	10.30	34.31	38.63 to 43.
2039	Canary Brand High Grade,	Brookville, Kline's Sifter Mills.	9.11	40.00	38.63 to 43.
1508	Canary Brand High Grade,	Butler, B. F. Shannon & Co.	9.07	37.00	38.63 to 43.
1976	Canary Brand High Grade,	Tyrone, Tyrone Milling Co.	7.93	38.56	41-43
		Average,	8.95	36.96	.....
2297	Eagle Brand High Grade,	Indiana, St. Clair, Rinn & Co.	8.02	38.81	38.63 to 43.

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.23	6.00	10.54	10.00	2 05	Made from decorticated cottonseed.	As certified,	1544
8.05	6.00	12.03	10.00	42 00	Made from decorticated cottonseed.	As certified,	2056
6.73	6.00	10.86	10.00	2 00	Made from decorticated cottonseed.	As certified,	1698
7.15	.....	11.15	.....	40.67			
6.50	7.00	10.39	10.00	2 25	Decorticated cottonseed.	As certified,	1461
6.16	6.00	12.34	12.00	45 00	.....	Cottonseed meal and excessive amount of hulls.	2365
5.58	6.00	14.89	12.00	2 25	.....	Cottonseed meal and excessive amount of hulls.	1909
5.60	6.00	13.84	10.00	44 00	.....	Cottonseed meal and excessive amount of hulls.	2174
5.78	.....	13.69	.....	44.00			
6.08	6.00	11.54	12.00	2 00	.....	Cottonseed meal and excessive amount of hulls.	1952
6.87	6.00	11.28	10.00	2 35	.....	Cottonseed meal and excessive amount of hulls.	2077
5.96	6.00	11.44	10.00	1 95	.....	Cottonseed meal and excessive amount of hulls.	1955
6.30	.....	11.42	.....	2 10			
6.33	6.00	9.51	12.00	2 00	Cottonseed meal,	As certified,	1670
6.87	6.00	7.48	10.00	1 75	.....	Cottonseed meal,	1657
6.60	.....	8.49	.....	1 88			
7.39	6.50	7.01	10.00	2 25	Decorticated cottonseed.	As certified,	2296
7.05	6.50	7.84	10.00	2 50	Decorticated cottonseed.	As certified,	2370
7.22	.....	7.42	.....	2 38			
6.71	6-8	12.58	8-12	1 95	Made from fully decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	1786
6.39	6-8	12.35	8-12	38 00	Made from fully decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	1901
8.25	6-8	10.26	8-10	40 00	Made from fully decorticated cottonseed.	As certified,	2039
6.23	6-8	13.06	8-12	1 95	Made from fully decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	1508
7.37	6-9	9.82	8-10	2 00	Made from fully decorticated cottonseed.	As certified,	1976
6.99	.....	11.61	.....	39 20			
7.50	6-8	10.77	8-12	2 75	Made from pressed cotton seed.	Cottonseed meal and excessive amount of hulls.	2397

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1946	W. C. NOTHERN, LITTLE ROCK, ARKANSAS. Butterfly Brand,	New Castle, John S. Brown's Son.	Per ct. 8.76	Per ct. 37.94	Per ct. 39-43
1361	Butterfly Brand,	Huntingdon, L. S. Goodman & Son.	7.11	41.38	39-43
1529	Butterfly Brand,	Greensburg, McFarland Supply Co.	7.37	40.50	39-43
1317	Butterfly Brand,	Leechburg, Harry May,.	8.38	40.81	39-43
	QUAKER OATS COMPANY, CHICAGO, ILL.	Average,	7.90	40.16	.....
2217	Cotton seed meal,	Spangler, E. F. Dumm,.	8.56	35.25	.....
1295	RALSTON PURINA CO., INC., BUFFALO, N. Y. Winner Prime,	Johnstown, A. F. Stutzman & Co.	6.89	40.56	41.00
1396	ROBERTS COTTON OIL CO., CAIRO, ILL. Cotton Seed Meal,	Rochester, Rochester Seed & Supply Co.	6.85	44.25	41.00
1924	W. NEWTON SMITH, BALTIMORE, MD. Dirigo Brand,	Wilkes-Barre, Miner-Hillard Mfg. Co.	8.79	36.81	41-43
1528	TEXAS CAKE & LINTER CO., DALLAS, TEX. Sunset Brand Prime,	Franklin, J. H. Lavery,	8.27	43.00	41-43
1867	Sunset Brand Prime,	Greenville, Mathers Brothers.	7.90	43.81	41-43
	TRADERS & PRODUCERS SUPPLY CO., BUFFALO, N. Y.	Average,	8.08	43.41	.....
1630	Chippewa Choice,	Bradford, Smith Bros,.	8.60	42.44	41-43
1579	UNION SEED & FERTILIZER CO., MEMPHIS, TENN. American Red Tag,	Hatfield, Estate of Geo. S. Snyder.	7.90	39.56	38.55
2340	UNKNOWN. Cotton Seed Meal,	Scranton, C. P. Matthews & Sons, Inc.	8.20	33.31	.....
	LINSEED OIL MEAL, N. P.	Total average,	8.28	39.60	.....
1570	AMERICAN LINSEED CO., NEW YORK, N. Y. Cleveland Flax Meal,	Sellersville, J. A. Kooker.	8.62	36.56	35.00
1521	Cleveland Flax Meal,	Telford, J. S. Kulp & Co.	8.32	35.88	36-40
	LINSEED OIL MEAL, O. P.	Average,	8.47	36.22	.....
1585	AMERICAN LINSEED CO., NEW YORK, N. Y. Old Process Oil Meal,	Hatfield, Estate of Geo. S. Snyder.	9.50	34.44	32-36
2263	Old Process Oil Meal,	Laceyville, A. L. Vandervort.	9.15	34.38	34.00
		Average,	9.32	34.41	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.22	Per ct. 6-8	Per ct. 12.50	Per ct. 8-12	33 00	Made from pressed cotton seed.	Cottonseed meal and excessive amount of hulls.	1946
7.44	6-8	9.57	8-12	2 45	Made from pressed cotton seed.	As certified,	1361
7.06	6-8	10.11	8-12	2 25	Made from pressed cotton seed.	As certified,	1529
7.15	6-8	10.02	8-12	2 50	Made from pressed cotton seed.	As certified,	1317
6.97	.....	10.55	.....	45 50			
6.28	.....	13.98	.....	2 50	.....	Cottonseed meal and excessive amount of hulls.	2217
8.44	6.00	9.98	12.00	1 85	.....	Cottonseed meal,	1295
7.42	6-7	7.35	10.00	2 00	.....	Cottonseed meal,	1396
6.33	7-9	12.35	6-10.5	2 10	Made from decorticated cottonseed.	Cottonseed meal and excessive amount of hulls.	1924
6.95	6-9	10.13	8-10	2 00	Made from decorticated cottonseed.	As certified,	1823
6.35	6-9	7.70	8-10	1.80	Made from decorticated cottonseed.	As certified,	1867
6.65	.....	8.91	.....	1 90			
8.69	7.50	10.49	14.00	33 00	.....	Cottonseed meal,	1630
6.41	7.00	11.61	11.50	40 00	.....	Cottonseed meal and excessive amount of hulls.	1579
6.64	.....	14.42	.....	.....	.....	Cottonseed meal and excessive amount of hulls.	2340
7.01	.....	10.63	.....	42 19			
2.16	2.00	9.21	9.00	2 05	.....	Linseed oil meal,	1570
3.19	1-3	9.21	6-7.5	2 10	.....	Linseed oil meal,	1521
2.69	.....	9.21	.....	2 08			
7.69	5-7	7.54	9-11	40 00	.....	Linseed oil meal,	1585
6.96	5.00	7.65	8.00	2 40	.....	Linseed oil meal,	2263
7.33	.....	7.59	.....	44 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	AMERICAN MILLING CO., PEORIA, ILL.		Per ct.	Per ct.	Per ct.
1592	Amco Old Process Linseed Meal,	Doylestown, H. S. Beidler.	9.66	32.06	30.00
1966	Amco Old Process Linseed Meal,	Lewisburg, Buffalo Flour Mfg. Co.	10.06	31.75	30.00
1424	Amco Old Process Linseed Meal,	Lansdale, A. C. Godshall & Co.	9.81	30.69	30.00
2094	Amco Old Process Linseed Meal,	West Chester, C. C. Hipple & Son.	10.18	30.88	30.00
1522	Amco Old Process Linseed Meal,	Telford, J. S. Kulp & Co.	8.98	26.56	30.00
1890	Amco Old Process Linseed Meal,	Gettysburg, J. W. McIlhenny.	10.86	30.13	30.00
		Average,	9.92	32.01	.....
	ARCHER-DANIELS LINSEED CO., BUFFALO, N. Y.				
2165	Old Process Ground Oil Cake,	Westfield, F. A. Ackley.	9.34	34.88	33.00
1905	Old Process Ground Oil Cake,	Wayne, I. W. Conner & Co.	10.07	33.94	33.00
2196	Old Process Ground Oil Cake,	Wellshoro Equity Co-operative Exchange.	9.08	36.19	33.00
2109	Old Process Ground Oil Cake,	Erie, Erie Milling & Supply Co.	9.91	36.69	33.00
2038	Old Process Ground Oil Cake,	Brookville, Kline's Sifter Mills.	10.87	35.81	33.00
1635	Old Process Ground Oil Cake,	Bradford, Smith Bros.,	9.03	33.38	32.00
		Average,	9.71	35.15	.....
	SPENCER KELLOGG & SONS, INC., BUFFALO, N. Y.				
2347	Pure Old Process Oil Meal,	Carbondale, Carbondale Milling Co.	9.88	34.13	33.00
1383	Pure Old Process Oil Meal,	Quakertown, S. S. Detweiler.	9.31	35.13	33.00
2231	Pure Old Process Oil Meal,	Holidaysburg, Fay Milling Co.	9.22	37.88	33.00
1669	Pure Old Process Oil Meal,	Philadelphia, Fred L. Lemont.	9.60	35.00	33.00
2143	Pure Old Process Oil Meal,	Canton, Preston Bros.,	10.02	33.56	33.00
2161	Pure Old Process Oil Meal,	Westfield, H. Z. Pride & Son.	9.68	34.38	33.00
1693	Pure Old Process Oil Meal,	Warren, Warren City Mills.	10.47	37.81	33.00
		Average,	9.74	35.41	.....
	METZGAR SEED & OIL CO., TOLEDO, OHIO.				
1939	Old Process Oil Meal,	New Castle, City Roller Mills.	9.50	29.69	30-36
1402	Old Process Oil Meal,	Beaver Falls, Dodds & Garrett.	9.76	32.44	30-36
1766	Old Process Oil Meal,	Reynoldsville, Fales Grocery Co.	10.42	30.44	30-36
1536	Old Process Oil Meal,	Latrobe, Latrobe Feed & Supply Co.	9.30	32.94	30-36
		Average,	9.74	31.38	.....
	THOMPSON & CO., PITTSBURGH.				
1362	Old Meal as Stock Food,	Huntingdon, L. S. Goodman & Son.	9.30	33.63	30-37.5
1617	Oil Meal as Stock Food,	Parnassus, Johnston & Hamilton.	9.22	30.81	30-37.5
1316	Oil Meal as Stock Food,	Leechburg, Harry May,	10.02	33.50	30-37.5
2297	Oil Meal as Stock Food,	Turtle Creek, F. J. Riddle.	9.58	31.50	30-37.5
2046	Oil Meal as Stock Food,	Clarion, A. C. Snyder & Son.	9.85	31.19	30-37.5
		Average,	9.59	32.13	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
7.20	5.00	8.62	10.00	42 00	Flaxseed products.	As certified,	1592
6.64	5.00	8.20	10.00	2 00	Flaxseed products.	As certified,	1966
6.44	5.00	8.41	10.00	2 10	Flaxseed products.	Linseed oil meal and small amount of screenings.	1424
7.16	5.00	9.00	10.00	44 00	Flaxseed products.	As certified,	2094
7.02	5.00	8.68	10.00	2 05	Flaxseed products.	As certified,	1522
6.70	5.00	8.19	10.00	35 00	Flaxseed products.	As certified,	1890
6.86	.....	8.51	.....	40 67			
7.51	6.00	7.56	10.00	2 30	.....	Linseed oil meal,	2165
6.90	6.00	7.57	10.00	2 50	.....	Linseed oil meal,	1905
8.18	6.00	7.30	10.00	2 50	.....	Linseed oil meal,	2196
6.50	6.00	8.09	10.00	2 20	.....	Linseed oil meal,	2109
6.65	6.00	6.92	10.00	42 00	.....	Linseed oil meal,	2038
9.98	6.00	7.77	10.00	1 80	.....	Linseed oil meal,	1635
7.62	.....	7.53	.....	41 33			
6.12	5.00	8.92	10.00	2 20	Made from linseed cake.	As certified,	2347
6.23	5.00	7.58	10.00	41 00	.....	Linseed oil meal,	1333
5.06	5.00	7.49	10.00	45 00	Made from linseed cake.	As certified,	2231
5.76	5.00	8.21	10.00	1 90	Made from linseed cake.	As certified,	1669
6.38	5.00	8.42	10.00	2 20	Made from linseed cake.	As certified,	2143
6.48	5.00	10.47	10.00	2 25	.....	Linseed oil meal,	2161
4.93	5.00	7.24	10.00	2 50	Made from linseed cake.	As certified,	1693
5.85	.....	8.33	.....	43 86			
6.55	5-7	8.42	2-10	38 00	.....	Linseed oil meal,	1939
6.90	5-7	8.35	2-10	2 25	.....	Linseed oil meal,	1402
6.63	5-7	8.38	2-10	2 00	.....	Linseed oil meal,	1766
6.38	5-7	8.64	2-10	2 30	.....	Linseed oil meal,	1536
6.62	.....	8.44	.....	42 25			
6.73	5.5-8.5	8.07	6-11	2 50	.....	Linseed oil meal,	1362
6.45	5.5-8.5	8.12	6-11	2 00	.....	Linseed oil meal,	1617
6.99	5.5-8.5	7.31	6-11	2 50	.....	Linseed oil meal,	1316
7.63	5.5-8.5	7.81	6-11	2 50	.....	Linseed oil meal,	2297
7.34	5.5-8.5	9.33	6-11	2 50	.....	Linseed oil meal,	2046
7.05	.....	8.13	.....	2 40			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	THE TOLEDO SEED & OIL CO., TOLEDO, OHIO.		Per ct.	Per ct.	Per ct.
1541	Old Process Oil Meal,	Manor, H. Altman & Son,	9.37	30.50	30-36
1278	Old Process Oil Meal,	Johnstown, G. Bostert & Son,	10.68	29.44	30.00
1456	Old Process Oil Meal,	Uniontown, J. F. Hogsett & Son,	9.38	31.56	30.00
1825	Old Process Oil Meal,	Ticnosta, Lanson Bros.,	10.27	30.94	30-36
2332	Old Process Oil Meal,	Scranton, C. P. Matthews & Sons, Inc.	10.03	30.06	.....
		Average,	9.34	30.50	.....
	TRADERS & PRODUCERS SUPPLY CO., BUFFALO, N. Y.				
2250	Bonnie Old Process Oil Meal,	Towanda, Dayton Milling Co.	9.33	35.69	34-36
2078	Bonnie Old Process Oil Meal,	Newport, W. H. Kepner,	10.13	35.25	34-36
		Average,	9.73	35.47	.....
		Total average,	9.75	33.22	.....
	COCOANUT OIL MEAL.				
	SHEPARD, CLARK & CO., CLEVELAND, OHIO.				
2106	Cocoonut Oil Cake Meal,	Linesville, Linesville Milling Co.	10.70	24.88	21.00
1820	Cocoonut Oil Cake Meal,	Oil City, New Model Milling Co.	8.45	23.00	21.00
1856	Cocoonut Oil Cake Meal,	Sharon, Sharon Flour & Feed Milling Co.	7.79	23.56	21.00
		Average,	8.98	23.81	.....
	CORN OIL MEAL.				
	AMERICAN HOMINY CO., INDIANAPOLIS, IND.				
1900	Homcoline Feed,	Malvern, Thomas Haines & Co.	7.91	17.25	17.00
	DISTILLERY AND BREWERY BY-PRODUCTS.				
	DISTILLERS' DRIED GRAINS.				
	(Largely from Corn.)				
	AJAX MILLING & FEED CO., NEW YORK, N. Y.				
2315	Ajax Flakes,	Montrose, Brown & Fassett,	6.98	33.63	30.00
1943	Ajax Flakes,	New Castle, City Roller Mills,	7.81	29.94	30.00
2243	Ajax Flakes,	Towanda, Dayton Milling Co.	7.46	31.81	30.00
2173	Ajax Flakes,	Chambersburg, Diehl, Omwake & Diehl,	5.83	32.94	30.00
2133	Ajax Flakes,	Lancaster, John W. Eshelman,	7.56	33.44	30.00
1375	Ajax Flakes,	Bethlehem, C. J. Fluck & Co.	6.91	31.56	30.00
1994	Ajax Flakes,	Monessen, J. A. Hager-son,	7.21	32.06	30.00
2311	Ajax Flakes,	Montrose, Harrington & Wilson,	7.01	33.63	30.00
2202	Ajax Flakes,	Tioga, J. H. Howe,....	6.06	30.25	30.00
1830	Ajax Flakes,	Franklin, J. H. Lavery,..	8.82	32.63	30.00
1671	Ajax Flakes,	Philadelphia, Fred L. Le-mont,	7.35	31.50	30.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.58	5-7	8.90	2-10	2 00	.....	Linseed oil meal,	1541
6.64	5.00	9.05	10.00	2 25	.....	Linseed oil meal,	1278
6.98	5.00	8.38	10.00	2 25	.....	Linseed oil meal,	1456
6.38	5-7	9.08	2-10	2 10	.....	Linseed oil meal,	1825
7.04	.....	10.28	.....	2 50	.....	Linseed oil meal and small of ground buckwheat hulls and wheat.	2332
6.72	.....	9.13	.....	2 22	.....	
8.17	6.00	6.89	10.00	2 20	.....	Linseed oil meal,	2250
6.82	6.00	7.53	10.00	2 35	.....	Linseed oil meal,	2078
7.50	.....	7.21	.....	2 28	.....	
6.83	.....	8.22	.....	43 49	.....	
6.01	6.00	7.51	10.00	1 75	Pure dried meat of the cocoanut.	As certified,	2106
11.94	7.00	8.65	10.00	1 75	Made from pure dried meat of the cocoanut.	As certified,	1820
14.75	7.00	8.52	10.00	1 75	Made from pure dried meat of the cocoanut.	As certified,	1856
10.90	.....	8.22	.....	1 75			
6.87	5.00	4.88	7.00	32 00	Manufactured from white corn only.	As certified,	1900
10.14	10.00	11.25	14.00	2 10	Corn distillers' grains.	As certified,	2315
9.64	10.00	12.43	14.00	33 00	.....	Distillers' dried grains, largely from corn.	1943
10.48	10.00	12.00	14.00	2 00	.....	Distillers' dried grains, largely from corn.	2243
10.93	10.00	12.60	14.00	35 00	Corn distillers' dried grains.	As certified,	2173
10.91	10.00	12.85	14.00	38 50	Corn distillers' grains.	As certified,	2133
10.79	11.00	12.09	14.00	35 00	Corn distillers' grains.	As certified,	1378
11.02	10-12	12.41	14.00	1 90	.....	Distillers' dried grains, largely from corn.	1994
9.21	10.00	12.38	14.00	2 10	Corn distillers' grains.	As certified,	2311
10.46	10.00	12.01	14.00	2 10	Corn distillers' grains.	As certified,	2202
10.03	10.00	7.15	14.00	1 80	.....	Distillers' dried grains, largely from corn.	1830
10.25	10.00	12.87	14.00	1 75	Corn distillers' grains.	As certified,	1671

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2160	Ajax Flakes,	Westfield, H. Z. Pride & Son.	7.29	31.38	30.00
2050	Ajax Flakes,	Carlisle, W. S. Stuart, ..	6.99	30.75	30.00
1692	Ajax Flakes,	Warren, Warren City Mills.	7.82	33.13	30.00
		Average,	7.22	32.05	.....
	AMERICAN MILLING CO., PEORIA, ILL.				
2186	Empire State Dairy Feed,	Shippensburg, W. H. Fogelsonger.	3.37	31.00	30.00
	ATLANTIC EXPORT CO., NEW YORK, N. Y.				
1485	Medal Brand,	Perkasie, Edwin F. Stover.	4.48	36.44	34.00
	ATLAS FEED & MILLING CO., PEORIA, ILL.				
2260	Atlas,	Laceyville, A. L. Vandervort.	8.11	31.75	30.00
2373	Atlas,	East Stroudsburg, J. M. Wyckoff.	9.83	30.31	30.00
		Average,	8.97	31.03	.....
	M. F. BARINGER, PHILADELPHIA, PA.				
1953	M. F. B.,	Pomeroy, Richard Scully,	7.77	31.63	34.00
2067	M. F. B.,	Mechanicsburg, A. B. Harnish.	6.55	33.06	34.00
		Average,	7.16	32.35	.....
	CLARKE BROTHERS & CO., PEORIA, ILL.				
2134	Empire State Dairy Feed,	Lancaster, John W. Eshelman.	6.94	30.13	30.00
1959	Empire State Dairy Feed,	Lewisburg, E. C. Noll, ..	7.17	30.19	30.00
2052	Empire State Dairy Feed,	Carlisle, W. S. Stuart, ..	6.84	33.50	30.00
		Average,	6.98	31.27	.....
	CONTINENTAL CEREAL CO., PEORIA, ILL.				
2316	Continental Gluten Feed,	Hop Bottom, Foster Mill Co., Inc.	7.61	29.88	29-34
	THE DEWEY BROTHERS CO., BLANCHESTER, OHIO.				
1505	Bourhon 3D Grains,	Butler, B. F. Shannon & Co.	6.16	24.81	24-28
1406	Corn 3D Grains—Dark Heavy,	Monaca, Monaca Roller Mills.	4.84	29.25	26.00
2167	Eagle 3D Grains,	Elkland, Elkland Roller Mills.	4.90	30.44	30-33
1404	Eagle 3D Grains—Dark Heavy,	Monaca, Monaca Roller Mills.	9.59	29.94	30-38
1405	Eagle 3D Grains—Light,	Monaca, Monaca Roller Mills.	9.94	31.44	30.00
1509	Eagle 3D Grains,	Butler, B. F. Shannon & Co.	5.42	29.62	30.00
		Average,	7.46	30.36	.....
	DONAHUE-STRATTON CO., MILWAUKEE, WIS.				
1870	Hiquality Spirits,	Coatesville, Handwork Brothers.	6.43	29.13	30-33
	THE FERGER GRAIN CO., CINCINNATI, OHIO.				
1708	Nutritia,	Philadelphia, Ezl. Dunwoody Co.	5.35	35.94	31.00
2096	Nutritia,	West Chester, C. C. Hipple & Son.	6.89	32.38	31.00
		Average,	6.12	34.16	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 10.02	Per ct. 10.00	Per ct. 12.75	Per ct. 14.00	1 85	Corn distillers' grains,	As certified,	2160
10.23	10.00	12.16	14.00	34 00	.....	Distillers' dried grains, largely from corn.	2050
9.93	11.00	11.98	14.00	1 75	.....	Distillers' dried grains, largely from corn.	1692
10.29	.....	11.92	.....	37 32			
12.11	10-12	12.98	14.00	38 00	Corn distillers' dried grains.	As certified,	2186
11.30	10-50	11.22	13.00	1 45	.....	Distillers' dried grains largely from corn.	1485
7.38	11.00	12.51	14.00	2 00	.....	Distillers' dried grains, largely from corn.	2260
11.35	11.00	11.82	14.00	2 10	.....	Distillers' dried grains, largely from corn.	2373
9.37	.....	12.16	.....	2 05			
11.39	10.00	11.23	14.00	27 60	.....	Distillers' dried grains, largely from corn.	1958
10.49	10.00	12.24	14.00	35 00	Made principally from corn.	As certified,	2067
10.94	.....	11.73	.....	31 30			
11.26	12.00	12.50	14.00	38 50	.....	Distillers' dried grains, largely from corn.	2134
12.23	12.00	11.98	14.00	32 00	.....	Distillers' dried grains, largely from corn.	1959
9.64	12.00	13.03	14.00	32 00	.....	Distillers' dried grains, largely from corn.	2052
11.04	.....	12.50	.....	34 17			
9.98	10-15	8.45	7-10	2 10	A distillery by-product manufactured from corn, oats, rye and barley.	As certified,	2316
8.01	8-11	9.11	9-14	1 65	.....	Distillers' dried grains, largely from corn.	1505
10.11	9.00	8.15	13.00	1 60	.....	Distillers' dried grains, largely from corn.	1406
10.65	10-15	11.75	8-13	2 00	.....	Distillers' dried grains, largely from corn.	2167
12.99	10-15	8.02	8-13	1 65	.....	Distillers' dried grains, largely from corn.	1404
13.37	10.00	10.98	13.00	1 65	.....	Distillers' dried grains, largely from corn.	1405
10.02	10.00	9.83	13.00	1 75	.....	Distillers' dried grains, largely from corn.	1509
11.76	.....	10.14	.....	1 76			
11.21	10-12	12.01	14.00	32 00	.....	Distillers' dried grains, largely from corn.	1870
9.11	12.00	12.42	12.00	31 00	Distillers' corn grains,	As certified,	1708
9.81	12.00	11.13	12.00	37 00	Made from corn.	As certified,	2096
9.46	.....	11.77	.....	34 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1192	THE FLEISCHMANN CO., CINCINNATI, OHIO. Fleischmann's,	Wellsboro, Equity Co-Operative Exchange.	Per ct. 5.69	Per ct. 25-44	Per ct. 25.00
2123	Fleischmann's,	Honey Brook, J. K. Lewis.	5.45	25.32	25.00
		Average,	5.57	25.38	.....
2189	THE HOTTELETT CO., MILWAUKEE, WIS. Hector,	Wellsboro, Equity-Co-Operative Exchange.	7.20	32.25	30.00
2113	Hector,	Erie, Erie Milling & Supply Co.	6.55	30.56	30.00
1576	Hector,	Sellersville, J. A. Kooker.	6.72	32.44	30-33
1465	Hector,	Erie, Nickel Plate Flour Mills.	7.18	33.06	30-33
2208	Hector,	Mausfield, Sun Milling Co.	6.64	20.25	30.00
		Average,	6.85	31.71	.....
1771	THE LARROWE MILLING CO., DETROIT, MICH. Brownie Grains,	Punxsutawney, Mahoning Valley Mlg. Co.	9.37	27.63	26-28
1926	THE UBIKO MILLING CO., CINCINNATI, OHIO. Fourer,	Wilkes-Barre, Miner-Hillard Mlg. Co.	7.04	29.94	31.00
2142	Fourer,	Canton, Preston Bros.,...	7.51	31.81	31.00
		Average,	7.27	30.88	.....
		Total average,	6.94	31.12	.....
	DISTILLERS DRIED GRAINS. (Largely from Rye.)				
2170	CHARLES ENGLAND & CO., BALTIMORE, MD. Distillers' Rye Grains,	Chambersburg, Diehl, Omwake & Diehl.	7.40	14.94	16.25
2071	Distillers' Rye Grains,	Mechanicsburg, A. B. Harsh.	7.92	17.19	16.25
		Average,	7.66	16.07	.....
2131	STEWART DISTILLERY, HIGHLANDTOWN, MD. Distillers' Rye Grains,	Lancaster, John W. Eshelman.	5.77	23.73	16-18
		Total average,	7.03	18.62	.....
2089	DISTILLERS' AND YEAST DRIED GRAINS. C. V. ADAMS, LANCASTER, PA. Keystone Dried Grains,	Oxford, H. P. Passmore & Bro.	8.14	17.85	19-23
1591	M. F. BARINGER, PHILADELPHIA, PA. Distillers' Dried Grains,	Doylestown, H. S. Beidler.	6.40	20.13	20-23
2157	Distillers' Dried Grains,	Knoxville, Deerfield Milling Co.	7.49	21.06	20-23
		Average,	6.94	20.60	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.92	Per ct. 10.00	Per ct. 14.45	Per ct. 16.00	1 80	Dried distillers' grains from corn, barley, malt and rye.	As certified,	2192
9.97	10.00	14.18	16.00	30 00	Dried distillers' grains from corn, barley, malt and rye.	As certified,	2123
9.45	.....	14.31	.....	33 00			
10.05	10.00	10.81	14.00	2 00	.....	Distillers' dried grains, largely from corn.	2189
9.20	10.00	11.61	14.00	1 85	.....	Distillers' dried grains, largely from corn.	2113
13.41	10-12	11.34	14.00	1 70	.....	Distillers' dried grains, largely from corn.	1576
12.23	10-12	11.92	14.00	1 65	.....	Distillers' dried grains, largely from corn.	1465
8.66	10.00	11.53	14.00	2 00	.....	Distillers' dried grains, largely from corn.	2208
10.71	.....	11.50	.....	1 84			
10.17	7-9	7-11	9.00	32 00	Steam dried distillers grains made principally from corn.	As certified,	1771
9.82	12.00	10.59	13.00	1 65	.....	Distillers' dried grains, largely from corn.	1926
11.80	12.00	12.63	13.00	1 95	.....	Distillers' dried grains, largely from corn.	2142
10.81	.....	11.61	.....	1 80			
10.48	.....	11.50	.....	35 78			
5.27	7.00	13.15	14.00	28 00	.....	Distillers' dried grains, largely from rye.	2170
6.90	7.00	13.37	14.00	26 50	.....	Distillers' dried grains, largely from rye.	2071
6.09	.....	13.26	.....	27 25			
9.44	6-7	11.72	16-18	26 00	.....	Distillers' dried grains, largely from rye.	2131
7.20	.....	12.74	.....	26 83			
5 89	7-9	15.74	19.00	30 00	Dried distillers grains from corn, barley and sprouts.	Distillers and yeast dried grains.	2089
6.40	6-8	17.01	18.00	30 00	Made from corn, rye, barley and malt sprouts.	Distillers' and yeast dried grains.	1591
6.19	6-8	17.88	18.00	28 00	Made from corn, rye, barley and malt sprouts.	Distillers' and yeast dried grains.	2157
6.30	.....	17.44	.....	29 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
1965	THE CORBY COMPANY, WASHINGTON, D. C. Corby Dried Grains,	Lewisburg, Buffalo Flour Mfg. Co.	Per ct. 7.03	Per ct. 17.13	Per ct. 17.00
2254	THE FLEISCHMANN CO., CHICAGO, ILL. Fleischmann's Dried Grains,	New Albany, F. T. My-nard Roller Mills.	6.75	19.00	19.00
2295	Fleischmann's Dried Grains,	Turtle Creek, F. J. Rid-dle.	6.56	17.56	19.00
		Average,	6.65	18.28	.....
2271	ILLINOIS VINEGAR MANUFACTURING CO., CHICAGO, ILL. Ivy Grains,	Skinner's Eddy, C. A. Jayne.	6.47	19.50	19.00
2382	Ivy Grains,	Stroudsburg, Frank Le Bar.	7.91	19.81	19.00
		Average,	7.19	19.66	.....
		Total average,	7.09	19.01	.....
	BREWERS DRIED GRAINS.				
2083	ATLANTIC EXPORT CO., NEW YORK, N. Y. Dried Brewers' Grains,	Toughkenamon, H. A. Mendenhall.	7.68	26.69	25.00
2023	Dried Brewers' Grains,	Christiana, B. F. Wal-ter.	5.52	25.75	25.00
		Average,	6.60	26.22	.....
2348	M. F. BARINGER, PHILADELPHIA, PA. M. F. B.,	Carbondale, Carbondale Milling Co.	7.61	26.94	25.00
1355	M. F. B.,	Bedford, Davidson Bros.,	7.46	29.25	25.00
		Average,	7.53	28.10	.....
1539	CRESCENT BREWING CO., IRWIN, PA. Brewers Dried Grains,	Manor, H. Altman & Son.	7.50	33.63	28.92
1869	JONAS F. EBY & SON, LANCASTER, PA. Stockade Fancy,	Coatesville, Handwork Brothers.	8.40	26.69	29.00
1789	FARMERS FEED CO., NEW YORK CITY, N. Y. Bull Brand,	Sunbury, Blank & Gott-shall.	7.00	27.13	27.2 to 28.94
2244	Bull Brand,	Towanda, Dayton Milling Co.	8.25	26.62	27.2 to 30.
2171	Bull Brand,	Chambersburg, Diehl, Omwake & Diehl.	6.87	32.06	27.2 to 30.
1519	Bull Brand,	Telford, A. B. God-shall.	7.33	25.81	27.2 to 30.
2309	Bull Brand,	Montrose, Harrington & Wilson.	6.01	28.44	27.2 to 30.
		Average,	7.09	28.01	.....
2095	THE HOTTELET CO., MILWAUKEE, WIS. Holstein,	West Chester, C. C. Hip-ple & Son.	6.62	23.00	25.00
1486	Holstein,	Perkasie, Edwin F. Stover.	7.97	27.00	25-27
		Average,	7.29	25.00	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.44	Per ct. 8.00	Per ct. 18.81	Per ct. 20.00	1 40	From the manufacture of compressed yeast; barley malt, rye malt, malt sprouts, corn.	As certified,	1965
6.60	7.00	17.87	19.00	1 40	Dried yeast grains from corn, barley malt and sprouts.	As certified,	2254
6.32	7.00	18.49	19.00	32 00	Dried yeast grains from corn, barley malt and sprouts.	As certified,	2295
6.46	.....	18.18	.....	30 00			
6.45	7.00	17.73	19.00	2 00	Dried grains made from corn, barley malt and sprouts.	Vinegar dried grains,...	2271
6.52	7.00	16.58	19.00	1 50	.....	Vinegar dried grains,...	2382
6.50	.....	17.15	.....	1 75			
6.36	.....	17.51	.....	30 75			
6.68	6.00	14.05	14.00	31 00	.....	Brewers' dried grains, ..	2083
7.08	6.00	16.53	14.00	33 00	.....	Brewers' dried grains, ..	2023
6.88	.....	15.29	.....	32 00			
7.39	6.00	13.98	15.00	1 60	.....	Brewers' dried grains, ..	2348
7.41	6.00	12.93	15.00	1 50	.....	Brewers' dried grains, ..	1355
7.40	.....	13.45	.....	1 65			
8.22	6.30	12.23	14.48	1 25	.....	Brewers' dried grains, ..	1539
6.47	6.50	12.41	13.00	28 00	.....	Brewers' dried grains, ..	1869
6.50	6.3 to 7.2	13.50	16.17 to 17.2	1 50	.....	Brewers' dried grains, ..	1789
6.99	6.3 to 8.	13.14	16.17 to 17.2	1 65	.....	Brewers' dried grains, ..	2244
7.29	6.3 to 8.	12.78	12.85 to 15.2	30 00	.....	Brewers' dried grains, ..	2171
6.62	6.3 to 8.	14.82	12.85 to 15.2	1 50	.....	Brewers' dried grains, ..	1519
6.87	6.3 to 8.	13.30	12.55 to 15.2	1 70	.....	Brewers' dried grains, ..	2309
6.86	.....	13.50	.....	31 40			
8.98	5.00	12.71	14.00	32 00	.....	Brewers' dried grains, ..	2095
6.11	5-7	13.37	14.00	1 25	.....	Brewers' dried grains, ..	1486
7.65	.....	13.04	.....	28 50			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	INDEPENDENT BREWING CO. OF PITTSBURGH, PA.		Per ct.	Per ct.	Per ct.
1478	Dried Brewers Grains,	Wilkinsburg, Johnston & Smith.	3.04	21.44	18.90
1307	Dried Brewers Grains,	Braddock, Irvin Muir,...	2.81	28.69	28.10
		Average,	2.92	25.07	.....
1520	M. A. JOSHEL, GENEVA, ILL. Peerless Pure,	Telford, A. B. Godshall.	7.25	29.75	26.00
1706	DAVID KLANDER, PHILADELPHIA, PA. Dried Brewers' Grains,	Philadelphia, Ezl. Dunwoody Co.	7.91	27.81	27-29
2321	THE PENNA. CENTRAL BREWING CO., SCRANTON, PA. Brewers' Dried Grains,	Scranton, Miner, Hillard Milling Co.	3.61	25.19	23.71
1844	PENN GRAINS & FEED CO., PHILADELPHIA, PA. Peerless Brand,	Paoli, Edward F. Bracken.	9.36	25.00	26.00
2120	Peerless Brand,	Downingtown, H. C. Clarkson.	7.71	28.00	26.00
1707	Peerless Brand,	Philadelphia, Ezl. Dunwoody Co.	8.72	27.06	26.00
		Average,	8.59	26.69	.....
1962	RALSTON PURINA CO., ST. LOUIS, MO. Winner,	Lewisburg, E. C. Noll,...	7.74	25.06	25.00
1925	REICHARD & WEAVER BREWERY, WILKES-BARRE, PA. Brewers' Dried Grains,	Wilkes-Barre, Miner-Hillard Milling Co.	8.47	27.00	27.92
1484	ROSEKRANS-SNYDER CO., PHILADELPHIA, PA. Brewers' Dried Grains,	Perkasie, Edwin F. Stover.	6.43	23.44	22-25
1442	Pilsner,	West Point, Heebner & Kriebel.	6.57	28.25	25.00
		Average,	6.50	25.85	.....
1580	JOS. SCHLITZ BREWING CO., MILWAUKEE, WIS. SCHLITZ PURITY,	Hatfield, Estate of Geo. S. Snyder.	7.06	29.75	26.00
1933	STEGMAIER BREWING CO., WILKES-BARRE, PA. Dried Brewers' Grains,	Wilkes-Barre, Robbins Milling Co.	8.80	26.31	23.76
1268	SWOPE BROS., JOHNSTOWN, PA. Brewers' Dried Grains,	Johnstown, Swope Bros.,	7.70	26.88	23.38
1393	WALTERS MILLING CO., PHILADELPHIA, PA. Brewers' Dried Grains,	Coopersburg, H. E. Knappenberger.	7.05	26.00	21-24
		Total average,	7.05	27.06	.....
	MALT SPROUTS.				
2110	PEROT MALTING CO., BUFFALO, N. Y. Malt Sprouts,	Erie, Erie Milling & Supply Co.	6.67	27.89	22.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.99	6.62	17.84	19.03	1 50	.....	Brewers' dried grains,..	1478
6.35	6.23	13.49	14.24	1 25	.....	Brewers' dried grains,..	1307
6.67	.....	15.66	.....	1 38			
6.00	6.00	13.27	15.00	1 50	.....	Brewers' dried grains,..	1520
7.51	6-8	12.72	13-15	24 00	.....	Brewers' dried grains,..	1706
7.52	7.14	16.23	15.85	1 50	.....	Brewers' dried grains,..	2221
6.78	6.00	14.62	12.00	1 50	.....	Brewers' dried grains,..	1844
6.70	6.00	12.21	12.00	31 00	.....	Brewers' dried grains,..	2120
6.63	6.00	14.04	12.00	24 00	.....	Brewers' dried grains,..	1707
6.72	.....	13.62	.....	28 33			
6.02	6.00	15.53	15.00	28 00	Brewers dried grains from barley.	As certified,	1962
7.37	7.41	13.26	14.20	1 50	.....	Brewers' dried grains,..	1925
5.99	5-6	15.02	16-18	1 80	.....	Brewers' dried grains,..	1484
7.24	5.00	12.32	18.00	31 00	.....	Brewers' dried grains,..	1442
6.62	.....	13.67	.....	33 50			
6.48	6.00	13.41	16.00	29 00	.....	Brewers' dried grains,..	1580
6.86	6.30	13.15	16.25	1 50	.....	Brewers' dried grains,..	1933
6.88	7.16	14.91	14.92	1 35	.....	Brewers' dried grains,..	1268
7.00	4-7	14.58	13-18	1 35	.....	Brewers' dried grains,..	1393
6.93	.....	13.87	.....	29 48			
0.83	0.50	12.88	18.00	1 50	.....	Malt sprouts,	2110

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
MAIZE BY-PRODUCTS.					
CORN GLUTEN FEED.					
AMERICAN MAIZE PRODUCTS CO., NEW YORK, N. Y.					
1940	Cream of Corn,	New Castle, City Roller Mills.	Per ct. 10.65	Per ct. 21.81	Per ct. 24.00
1414	Cream of Corn,	New Brighton, J. H. Hornby & Sons.	10.67	22.88	24.00
1377	Cream of Corn,	South Bethlehem, C. C. Lynn & Co.	9.82	25.19	24.00
		Average,	10.38	23.29	.....
CLINTON SUGAR REFINING CO., CLINTON, IOWA.					
2319	Clinton,	Hop Bottom, Foster Mill Co., Inc.	9.39	25.06	23.00
2379	Clinton,	East Stroudsburg, J. M. Wyckoff.	8.62	26.25	23.00
		Average,	9.00	25.66	.....
CORN PRODUCTS REFINING CO., NEW YORK, N. Y.					
2138	Buffalo,	Canton, Canton Mercantile Co.	10.29	27.63	23.00
1816	Buffalo,	Williamsport, F. W. Dawson & Son.	9.60	27.38	23.00
2112	Buffalo,	Erie, Erie Milling & Supply Co.	9.22	26.94	23.00
2147	Buffalo,	Troy, Farmers' & Consumers' Commercial Union.	10.51	26.25	23.00
2402	Buffalo,	Homer City, T. K. George.	11.84	25.13	23.00
1877	Buffalo,	Coatesville, Handwork Brothers.	11.45	24.88	23.00
2205	Buffalo,	Tioga, J. H. Howe,	9.56	27.06	23.00
2269	Buffalo,	Skidders Eddy, C. A. Jayne.	9.66	28.75	23.00
1460	Buffalo,	Uniontown, King Bros....	9.46	30.22	23.00
1838	Buffalo,	St. Marys, Leonard Ritter.	10.34	27.81	23.00
1975	Buffalo,	Tyrone, Tyrone Milling Co.	8.00	24.44	23.00
2214	Buffalo,	Ebensburg, Veith Bros....	8.79	24.00	23.00
1745	Buffalo,	Philadelphia, W. T. Will, Jr.	9.66	24.06	23.00
		Average,	9.87	26.50	.....
DOUGLAS CO., CEDAR RAPIDS, IOWA.					
1386	Douglas,	Quakertown, S. S. Detweiler.	10.77	25.13	23-25
2257	Douglas,	Towanda, F. H. Hagerman.	8.77	27.06	23.00
2073	Douglas,	Mechanicsburg, A. B. Harnish.	9.79	29.59	23-25
2322	Douglas,	Scranton, Miner-Hillard Milling Co.	8.24	25.19	23.00
1960	Douglas,	Lewisburg, E. C. Noll, ..	9.60	25.44	23.00
		Average,	9.43	26.48	.....
THE FERGER GRAIN CO., CINCINNATI, OHIO.					
1907	Gluten Feed,	Wayne, I. W. Conner & Co.	10.02	25.44	.....
J. C. HUBINGER BROTHERS CO., KEOKUK, IOWA.					
2292	K. K. K.,	Hays, John Lachman & Co.	9.03	25.56	23.00
HURON MILLING CO., HARBOR BEACH, MICH.					
1526	Jenks',	South Perkaspie, W. E. Savacool.	10.21	26.00	22-25

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
1.49	1.50	7.69	8.00	32 00	.....	Corn-gluten feed,	1940
2.78	1.50	7.88	8.00	1 60	.....	Corn-gluten feed,	1414
2.49	1.50	6.70	8.50	31 00	.....	Corn-gluten feed,	1377
2.25	.....	7.42	.....	31 67			
2.60	3.00	6.80	8.00	2 00	.....	Corn-gluten feed,	2319
3.43	3.00	7.58	8.00	2 10	.....	Corn-gluten feed,	2379
3.02	.....	7.19	.....	2 05			
3.02	1.00	7.52	8.50	1 80	Corn gluten feed,.....	As certified,	2138
3.38	1.00	8.29	8.50	1 65	Corn gluten feed,.....	As certified,	1816
2.10	1.00	7.31	8.50	1 80	Corn gluten feed,.....	As certified,	2112
1.82	1.00	8.52	8.50	1 75	Corn gluten feed,.....	As certified,	2147
2.63	1.00	6.46	8.50	2 25	Corn gluten feed,.....	As certified,	2492
2.64	1.00	7.85	8.50	1 50	Corn gluten feed,.....	As certified,	1877
3.11	1.00	7.14	8.50	2 00	Corn gluten feed,.....	As certified,	2205
1.33	1.00	7.08	8.50	2 05	Corn gluten feed,.....	As certified,	2269
2.53	1.00	6.76	8.50	1 80	Corn gluten feed,.....	As certified,	1460
2.69	1.00	8.09	8.50	1 75	Corn gluten feed,.....	As certified,	1838
2.40	1.00	8.72	8.50	1 60	Corn gluten feed,.....	As certified,	1975
1.77	1.00	8.46	8.50	1 90	Corn gluten feed,.....	As certified,	2214
3.59	1.00	9.41	8.50	1 60	Corn gluten feed,.....	As certified,	1745
2.54	.....	7.81	.....	1 80			
3.55	1.00	6.27	8.00	30 00	.....	Corn gluten feed,	1386
2.11	1.00	6.73	8.00	2 00	.....	Corn gluten feed,	2257
2.44	2.00	6.88	8.00	31 00	.....	Corn gluten feed,	2073
1.96	1.00	6.35	8.00	2 30	.....	Corn gluten feed,	2322
1.61	1.00	6.00	8.00	32 00	.....	Corn gluten feed,	1960
2.53	.....	6.44	.....	35 80			
2.04	.....	6.63	.....	1 80	.....	Corn gluten feed,	1907
4 14	2.40	7.08	7.50	33 00	Corn starch by-product with corn solubles.	As certified,	2292
3.75	3.00	6.59	8.00	30 00	.....	Corn gluten feed,	1526

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1427	THE KEEVER STARCH CO., COLUMBUS, OHIO. Keever,	Lansdale, A. C. Godshall & Co.	Per ct. 5.29	Per ct. 19.69	Per ct. 20.00
2102	PIEL BROTHERS STARCH CO., INDIANAPOLIS, IND. P. Bro.,	West Chester, I. H. Bailey.	7.06	27.00	23.00
2392	P. Bro.,	Easton, The Easton Flour & Feed Co.	6.21	25.50	23.00
		Average,	6.63	26.25	.....
1574	ROSEKRANS-SNYDER CO., PHILADELPHIA, PA. Jenk's,	Sellersville, J. A. Rooker,	9.70	24.88	22.00
2383	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA. Corn Gluten Feed,	Stroudsburg, Frank Le Bar.	7.74	25.25	.....
2237	A. E. STALEY MANUFACTURING CO., DECATUR, ILL. Staley's,	Towanda, Dayton Milling Co.	8.70	23.88	23-25
2306	Staley's,	Montrose, Harrington & Wilson.	9.12	24.56	23-25
1862	Staley's,	Farrell, J. B. Roux,	8.86	24.19	23-25
		Average,	8.89	24.71	.....
2235	UNION STARCH & REFINING CO., EDINBURG, IND. Union,	Athens, Athens Milling & Produce Co.	9.73	25.75	23.00
2366	Union,	Midway, D. G. Bamford Milling Co.	10.78	23.06	23.00
		Average,	10.25	24.41	.....
1492	C. W. WAGAR & CO., PHILADELPHIA, PA. Union,	Quakertown, T. & J Strawn.	10.56	22.06	.....
		Total average,	9.39	25.43	.....
	HOMINY FEED.				
1390	AMERICAN HOMINY CO., INDIANAPOLIS, IND. Homco,	Quakertown, H. H. Bean.	9.10	11.00	10.00
2273	Homco,	Skinners Eddy, C. A. Jayne.	9.63	12.00	10.00
1866	Homco,	Greenville, Mathers Bros.,	10.00	10.63	10.00
2336	Homco,	Scranton, C. P. Matthews & Sons, Inc.	9.50	10.44	10.60
		Average,	9.55	11.02	.....
1881	BALTIMORE PEARL HOMINY CO., BALTIMORE, MD. Spring Garden,	Contesville, J. T. Gay & Son.	10.12	11.31	10.00
1288	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Fine,	Windber, L. B. Reeser & Co.	10.40	11.25	10-15
2193	EVANS MILLING CO., INDIANAPOLIS, IND. Emco Evans,	Wellshoro, Equity Co-Operative Exchange.	9.01	11.94	10.00
1782	Emco Evans,	McVeytown, John T. Rodgers.	10.00	10.56	10.00
		Average,	9.50	11.25	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.56	Per ct. 3.00	Per ct. 5.65	Per ct. 7.00	30 00	A corn starch by-product with corn bran. This feed is colored with not over 1-10 of 1% of naphthol yellow coloring matter.	As certified,	1427
2.05	2.00	6.85	8.00	36 00	.....	Corn gluten feed,	2102
1.99	2.00	7.07	8.00	1 90	.....	Corn gluten feed,	2392
2.02	.....	6.96	.....	37 00			
3.52	3.00	7.09	8.00	1 50	.....	Corn gluten feed,	1574
1.63	.....	7.06	.....	1 95	.....	Corn gluten feed,	2383
4.62	2.5-3	7.37	9-12	1 95	.....	Corn gluten feed,	2237
3.63	2.5-3	7.26	9-12	2 00	.....	Corn gluten feed,	2306
3.17	2.5-3	7.68	9-12	1 30	.....	Corn gluten feed,	1862
3.83	.....	7.43	.....	1 75			
2.85	3.00	7.66	8.00	1 85	.....	Corn gluten feed,	2235
2.80	3.00	6.82	8.00	40 00	.....	Corn gluten feed,	2366
2.82	.....	7.24	.....	38 50			
4.03	.....	7.33	.....	1 55	.....	Corn gluten feed,	1492
2.76	.....	7.26	.....	35 54			
7.62	7.00	4.34	7.00	.....	.....	Hominy feed,	1390
6.58	6.00	4.75	7.00	2 20	Manufactured from white corn only.	As certified,	2273
7.11	6.00	4.46	7.00	1 55	Manufactured from white corn only.	As certified,	1866
5.59	7.00	4.76	7.00	2 25	Manufactured from white corn only.	As certified,	2336
6.72	.....	4.57	.....	2 00			
6.23	7.00	4.23	5.00	1 80	Made from corn,.....	As certified,	1931
7.09	6-10	3.01	8-12	1 60	Made from pure corn,	As certified,	1238
8.15	7.50	4.96	7.00	2 25	Manufactured from white corn.	As certified,	2193
7.14	7.50	5.17	7.00	1 80	Manufactured from white corn.	As certified,	1782
7.65	.....	5.06	.....	2 03			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS.		Per ct.	Per ct.	Per ct.
2275	Badger,	Tunkhannock, Brown & Fassett.	8.86	12.63	10.00
2139	Badger,	Canton, Canton Mercantile Co.	9.58	12.88	10.00
1853	Badger,	Berwyn, William H. Fritz.	11.14	11.75	10.00
1818	Badger,	Montoursville, Herman Keebler.	9.85	11.06	10.00
		Average,	9.85	12.08	.....
	MINER-HILLARD MILLING CO., WILKES-BARRE, PA.				
2324	Choice Steam Cooked,	Seranton, Miner-Hillard Milling Co.	9.62	11.50	10-12
1930	Choice Steam Cooked,	Wilkes-Barre, Robbins Milling Co.	10.49	11.94	10-12
		Average,	10.05	11.72	.....
	THE QUAKER OATS CO., CHICAGO, ILL.				
1305	Yellow,	Pitcairn, B. F. Salyards.	11.21	10.94	9.00
	M. G. RANKIN & CO., MILWAUKEE, WIS.				
2270	Jersey,	Skinnors Eddy, C. A. Jayne.	9.20	11.13	10.00
	S. F. SCATTERGOOD & CO., PHILADELPHIA, PA.				
2070	Hominy Feed,	Mechanicsburg, A. B. Harnish.	11.11	13.63	.....
	THE STANDARD CEREAL CO., CHILLICOTHE, O.				
2021	Logan,	Witmer, J. B. Weaver & Son.	10.19	11.13	9.00
	SUFFERN-HUNT MILLS, DECATUR, ILL.				
2130	Acme,	Lancaster, John W. Eshelman.	9.48	11.19	9.50
		Total average,	9.92	11.52	.....
	CORN BRAN.				
	M. F. BARINGER, PHILADELPHIA, PA.				
1582	Yellow,	Hatfield, Estate of George S. Snyder.	8.72	12.06	7.00
	THE HEFFNER MILLING CO., CIRCLEVILLE, OHIO.				
1517	Corn Bran,	Telford, A. B. Godshall,	9.20	11.69	9-11
	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS.				
1851	Badger Cream Flakes,	Berwyn, William H. Fritz.	10.53	10.13	8.00
1516	Badger Cream Flakes,	West Point, L. W. Mat-tern.	8.13	9.00	8.00
		Average,	9.33	9.57	.....
	J. C. LANDIS, COLLEGEVILLE, PA.				
1573	Corn Bran,	Sellersville, J. A. Kooker,	8.37	10.63	6.00
	C. W. WAGAR & CO., PHILADELPHIA, PA.				
1906	Maizeline Feed,	Wayne, I. W. Conner & Co.	9.93	9.75	7.00
	WALTERS MILLING CO., PHILADELPHIA, PA.				
1426	White,	Lansdale, A. C. Godshall & Co.	8.30	11.13	8-12
		Total average,	9.02	10.63	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.76	6.00	5.54	5.00	2 10	Made from white corn.	As certified,	2275
7.13	6.00	4.79	5.00	2 00	Made from white corn.	As certified,	2139
6.44	6.00	4.00	5.00	1 85	Made from white corn.	As certified,	1853
6.50	6.00	5.59	5.00	1 65	Made from white corn.	As certified,	1818
6.71	.....	4.98	.....	1 90			
5.57	5-8	4.61	3-5	2 30	.....	Hominy feed,	2324
6.47	5-8	2.93	3-5	1 85	.....	Hominy feed,	1930
6.02	.....	3.77	.....	2 08			
6.78	4.00	2.53	4.00	1 80	Made from yellow hominy feed.	As certified,	1305
7.56	6.00	4.82	5.00	2 20	.....	Hominy feed,	2270
6.62	.....	5.07	.....	36 00	.....	Hominy feed,	2070
7.06	7.00	4.40	6.00	35 00	.....	Hominy feed,	2021
7.54	7.00	5.55	7.00	40 50	Compounded white corn. from	As certified,	2130
6.84	.....	4.50	.....	38 64			
12.57	5.00	6.51	15.00	25 00	.....	Corn bran,	1582
8.05	5-7	11.56	13-15	25 00	.....	Corn bran and small amount of corn siftings	1517
6.59	4.00	7.02	9.00	1 85	Made from white corn.	As certified,	1851
5.76	4.00	10.57	9.00	30 00	Made from selected white corn, carefully handled, cooked and kiln dried.	As certified,	1516
6.18	.....	8.79	.....	33 50			
11.88	4.00	7.45	11.00	1 55	.....	Corn bran,	1573
6.22	4.00	7.19	13.00	33 00	.....	Corn bran,	1906
7.32	4-7	5.60	6-10	33 00	.....	Corn bran,	1426
8.47	.....	7.98	.....	30 57			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
CORN FEED MEAL.					
1534	THE AKRON FEED & MILLING CO., AKRON, OHIO. Portage Yellow,	Latrobe, Latrobe Feed & Supply Co.	Per ct. 12.61	Per ct. 8.25	Per ct. 6-8
1567	THE BUCKEYE CEREAL CO., MAS- SILLON, OHIO. Feed Meal,	Clearfield, J. T. Murphy,	11.40	9.50	9.00
2345	EMPIRE MILLS, OLEAN, N. Y. Corn Feed Meal,	Carbondale, C. Ditch- burn's Sons.	13.99	9.25	8.80
		Total average,	12.66	9.00	.....
WHEAT OFFALS.					
LOW GRADE FLOUR.					
1392	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Red Dog Middlings,	Coopersburg, H. E. Knap- penberger.	10.12	17.12	17.00
2211	THE NORTHWESTERN CONSOLI- DATED MILLING CO., MINNE- APOLIS, MINN. XXX Comet,	Mansfield, Equity Co-Op- erative Exchange.	10.82	18.50	16.50
1411	STAR & CRESCENT MILLING CO., CHICAGO, ILL. Pure Wheat Red Dog,	New Brighton, J. H. Hornby & Sons.	11.74	16.19	16.50
1376	WASHBURN-CROSBY CO., MINNE- APOLIS, MINN. Arlington,	South Bethlehem, C. C. Lynn & Co. Average,	11.25 10.93	15.25 16.77	..........
WHEAT MIDDLINGS.					
1443	BALLARD & BALLARD CO., LOUIS- VILLE, KY. Pure,	West Point, Heebner & Kriebel.	9.50	14.06	16.45
1662	THE CANTON FEED & MILLING CO., CANTON, OHIO. Bako,	Washington, J. K. Law- son.	13.26	15.75	17.00
2241	DAYTON MILLING CO., TOWANDA, PA. D. M. Co.,	Towanda, Dayton Milling Co.	10.98	17.00	.....
1753	B. A. ECKHART MILLING CO., CHICAGO, ILL. Flour Middlings,	Emporium, Emporium Milling Co.	11.54	17.13	15.00
1701	GAMBLE, GHEEN & CO., BELLE- FONTE, PA. Pure,	Lock Haven, George F. Dietz & Co.	12.18	17.06	.....
2209	GLOBE ELEVATOR CO., BUFFALO, N. Y. Flour Middlings,	Mansfield, Sun Milling Co.	11.22	16.19	12-14
2285	HART-HUNTER MILLING CO., JEANNETTE, PA. Pure,	Jeannette, Hart-Hunter Milling Co.	11.86	16.50	.....
1824	NATIONAL FEED CO., ST. LOUIS, MO. Wheat Middlings,	Tionesta, Lanson Broth- ers.	11.55	18.56	16.00
1372	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Seal of Minnesota Special,	Mapleton, H. O. An- drews.	10.45	18.31	16.25

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.55	Per ct. 2-4	Per ct. 4.51	Per ct. 7-9	1 80	Yellow corn product.	As certified,	1534
3.89	6.50	2.21	3.00	1 85	.....	Corn feed meal,	1567
3.53	3.80	2.14	3.00	2 15	Composed of corn.	Corn feed meal,	2345
3.66	.....	2.95	.....	1 93	.....	.....	.....
5.47	4.50	2.06	4.00	1 65	.....	Low grade flour,	1392
5.23	4.00	2.27	3.00	2 20	Pure wheat product composed of red dog wheat flour.	As certified,	2211
3.81	4.00	2.52	3.00	1 65	.....	Low grade flour,	1411
3.96	.....	1.05	.....	1 80	Selected wheat flour.	As certified,	1376
4.62	.....	1.97	.....	1.83	.....	.....	.....
4.42	4.60	6.13	6.42	30 00	.....	Wheat middlings and small amount of oat hulls.	1443
3.73	4.00	3.36	5.50	1 70	.....	Wheat middlings,	1662
5.60	.....	4.23	.....	2 40	.....	Wheat middlings,	2241
3.77	4.00	4.12	7.00	1 75	.....	Wheat middlings,	1753
4.49	.....	3.42	.....	1 85	Pure wheat middlings.	As certified,	1701
5.33	3-5	5.69	8-9	1 85	.....	Wheat middlings,	2209
4.45	.....	5.37	.....	2 15	.....	Wheat middlings,	2285
5.02	4.00	5.05	7.00	1 60	Wheat middlings only.	As certified,	1824
5.60	5.25	4.54	5.40	1 60	.....	Wheat middlings,	1372

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Protein.		
			Moisture.	Found.	Guaranteed.
2045	NIAGARA FALLS MILLING CO., NIAGARA FALLS, N. Y. Choice Wheat Flour Middlings,	Clarion, A. C. Snyder, ..	Per ct. 11.29	Per ct. 17.13	Per ct. 15.00
2023	NORTHWESTERN MILLING CO., LITTLE FALLS, MINN. Fancy Country,	DuBois, Timlin, Kelly Co.	11.32	15.88	14.50
1756	F. W. STOCK & SONS, HILLSDALE, MICH. Middlings,	Port Allegheny, Port Allegheny Milling Co.	12.06	16.13	16.50
1842	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's No. 2 White,	Ridgway, Smith Brothers Co.	12.00	16.25	15.50
2163	CHARLES B. WELLER, McCON- NELLSBURG, PA. Fresh Ground,	McConnellsburg, Charles B. Weller.	13.47	16.00	.....
2396	FRANK C. WILLIAMS, EASTON, PA. Pure,	Easton, Frank C. Wil- liams.	11.60	17.25	15.00
	WHEAT MIDDINGS WITH ADMIX- TURES.	Average,	11.63	16.61	.....
2178	ATLAS FLOUR MILLS, MILWAU- KEE, WIS. Standard Wheat Middlings With Screenings,	Williamson, Williamson Elevator.	10.88	17.00	13.50
2222	T. M. BIDDLE, ALTOONA, PA. Gem Middlings,	Altoona, T. M. Biddle, ..	11.04	17.69	10.10
1640	BLAINE, MACKAY, LEE CO., NORTH EAST, PA. Pure wheat middlings with ground screenings,	Smethport, F. A. Green	12.21	19.19	16.00
1615	GEORGE C. CHRISTIAN, MINNE- APOLIS, MINN. Poland Wheat Standard Middlings, ..	Parnassus, Johnston & Hamilton.	9.93	16.82	14.00
1359	THE CLEVELAND MILLING CO., CLEVELAND, OHIO. Choice White Middlings,	Bedford, W. M. & O. R Diehl.	10.96	16.06	14-17
1358	Special Fine Middlings,	Bedford, W. M. & O. R Diehl.	11.14	15.50	15-18
	Average,	Average,	11.05	15.78	.....
1730	THE COCKLEY MILLING CO., LEX- INGTON, OHIO. Brown Middlings with Ground Screen- ings not Exceeding Mill Run,	Somerset, H. C. Beerit's Sons.	11.90	14.00	16.20
1644	CROUCH BROTHER'S CO., ERIE, PA. Wheat Middlings with Screenings, ..	Smethport, Herzog Mill- ing Co.	12.05	17.31	15.00
1272	THE HARTER MILLING CO., TOL- EDO, OHIO Harter's Winter Wheat Middlings with Ground Screenings not Ex- ceeding Mill Run,	Johnstown, Swope Brothers.	11.03	16.63	15.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.69	Per ct. 4.00	Per ct. 5.85	Per ct. 8.00	1 80	.....	Wheat middlings and small amount of ground grain screenings.	2045
5.64	5.00	8.58	9.00	1 60	.....	Wheat middlings and ground grain screenings.	2033
4.96	4.00	6.24	6.00	1 60	Made from pure wheat.	Wheat middlings and small amount of ground grain screenings.	1756
5.16	4.00	6.65	5.00	1 75	.....	Wheat middlings,	1842
3.66	.....	2.78	.....	1 80	.....	Wheat middlings,	2169
5.96	4.00	5.26	4.30	2 00	.....	Wheat middlings and small amount of ground grain screenings.	2396
4.83	.....	5.15	.....	35 93			
4.50	3.50	10.13	10.50	1 60	Standard wheat middlings with ground screenings not exceeding mill run.	As certified,	2178
4.91	2.10	2.46	11.30	2 40	Wheat middlings, Red dog flour.	As certified,	2922
4.96	4.00	4.75	6.00	1 60	Pure wheat middlings with mill run screenings.	As certified,	1640
6.02	4.00	7.74	11.00	1 50	Poland wheat standard middlings with ground screenings not exceeding mill run.	As certified,	1615
5.02	4-6	4.61	8.00	1 60	Made from wheat with ground screenings not exceeding mill run.	As certified,	1359
4.57	5-6.5	3.58	6.00	1 70	Made from wheat with ground screenings not exceeding mill run.	As certified,	1358
4.80	.....	4.09	.....	1 65			
3.87	4.60	6.71	5.00	1 70	.....	Wheat middlings and trace of whole weed seeds.	1730
5.31	5.00	5.53	5.00	1 55	Wheat middlings with ground screenings not exceeding mill run.	As certified,	1644
5.11	4.00	5.56	6.50	1 70	.....	Wheat middlings and mill run ground screenings.	1272

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1363	HUNTER-ROBINSON-WENZ MILL- ING CO., ST. LOUIS, MO. Ivory Extra White Wheat Midds with Ground Screenings not Exceeding Mill Run,	Huntingdon, City Flour & Feed Mill	Per ct. 10.03	Per ct. 17.88	Per ct. 15.50
1549	KEMPER MILL & ELEVATOR CO., KANSAS CITY, MO. Crescent Middlings with Screenings not Exceeding Mill Run,	New Stanton, Jas. F. Stanton & Sons.	10.77	18.81	16.00
1554	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Fancy Middlings,	Philipsburg, J. O. Reed.	9.57	13.13	12.00
2364	Badger Fancy Middlings,	Castle Shannon, George Renton & Co.	11.20	13.63	12.00
		Average,	10.38	13.38	.....
2298	MADELIA ROLLER MILLS, MADE- LIA, MINN. Wheat Flour Middlings,	Homestead, Vallowe Brothers.	11.07	16.81	14.25
1545	THE MANSFIELD MILLING CO., INC., MANSFIELD, OHIO. Wheat Middlings with Ground Screen- ings not Exceeding Mill Run,	Scottdale, J. E. Pritts, ..	10.95	16.69	13.00
1431	MAYFLOWER MILLS, FORT WAYNE, IND. Mayflower Middlings,	Lansdale, F. P. Cassel & Son.	10.19	16.63	14-18
1447	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Palmo Midds,	Connellsville, Dull & Co.,	6.84	17.88	16.00
1231	Palmo Midds,	Kittanning, William Gates Estate.	7.40	16.94	16.00
1298	Palmo Midds,	Johnstown, J. H. Hersh- berger & Son.	6.74	15.88	16.00
1340	Palmo Midds,	New Kensington, A. H. Klugh.	4.24	17.00	16.00
		Average,	6.30	16.93	.....
1581	THE NORTHWESTERN CONSOLI- DATED MILLING CO., MINNE- APOLIS, MINN. Wheat Middlings,	Hatfield, Estate of George S. Snyder.	9.83	15.69	15.00
1945	OHIO VALLEY GRAIN & FEED CO., CORAPOLIS, PA. Dark Middlings,	New Castle, John S. Brown's Son.	6.53	15.75	17.00
2400	Dark Middlings,	Indiana, Hetrick, Wilson & Co.	8.66	14.38	17.00
		Average,	7.59	15.07	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.12	4.50	3.60	8.00	1 75	.....	Wheat middlings and mill run ground screenings.	1368
4.99	4.00	6.74	8.00	1 30	.....	Wheat middlings and mill run ground screenings.	1549
5.65	4.50	3.78	7.00	1 75	Made from maize red dog flour and wheat middlings with ground screenings not exceeding mill run.	As certified,	1554
7.84	4.50	4.73	7.00	40 00	Made from maize red dog flour and wheat middlings with ground screenings not exceeding mill run.	As certified,	2364
6.75	.....	4.25	.....	37 50			
5.09	3.00	6.83	5.35	2 15	Wheat flour middlings with ground screenings not exceeding mill run.	As certified,	2298
5.52	4.00	5.84	13.00	1 40	.....	Wheat middlings and mill run ground screenings.	1545
5.22	4-6	6.21	8-9	25 00	Pure wheat product with ground screenings not exceeding mill run.	As certified,	1431
8.12	6.00	4.98	7.00	1 40	Cleaning middling and palm oil.	Wheat middlings and palm oil.	1447
7.40	6.00	4.40	7.00	1 30	Cleaning middling and palm oil.	Wheat middlings, rye middlings and palm oil.	1331
6.02	6.00	6.24	7.00	1 40	Cleaning middling and palm oil.	Wheat middlings, rye middlings, palm oil and small amount of saw-dust.	1298
8.93	6.00	5.87	7.00	1 30	Cleaning middling and palm oil.	Wheat middlings and palm oil.	1340
7.62	.....	5.37	.....	1 35			
5.92	4.50	9.93	11.00	28 00	Standard wheat middlings with ground screenings not exceeding mill run.	As certified,	1581
4.48	5.84	7.46	4.85	24 00	Composed of middling and palm oil.	Rye middlings, palm oil and small amount of ground corn cobs.	1945
4.48	5.84	9.60	4.85	1 75	Composed of middling and palm oil.	Rye middlings, palm oil and ground corn cobs.	2400
4.48	.....	8 53	.....	29 50	.....	

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1421	J. B. ROUX, FARRELL, PA. Palm Oil Middlings,	Freedom, Excelsior Flour & Feed Co.	Per ct. 5.47	Per ct. 18.31	Per ct. 15.00
1860	Palm Oil Middlings,	Farrell, J. B. Roux, ..	4.92	16.63	15.00
		Average,	5.19	17.47	.....
1282	STANDARD-TILTON MILLING CO., ST. LOUIS, MO. Wheat Middlings with Screenings not Exceeding Mill Run,	Windber, Claude Davls,	11.15	17.63	15.00
2268	TIOGA MILL & ELEVATOR CO., WAVERLY, N. Y. Waverly Flour Wheat Middlings,	Skinner's Eddy, Cline Milling Co.	11.03	16.50	15.00
1629	TRADERS AND PRODUCERS SUP- PLY CO., BUFFALO, N. Y. Chippawa Fancy Middlings,	Bradford, Smith Broth- ers.	11.47	17.75	16.00
2404	WASHBURN-CROSBY CO., MINNE- APOLIS, MINN. Wheat Standard Middlings,	Homer City, T. K. George.	10.56	17.13	14.00
1504	WHEELING STEEL & IRON CO, YORKVILLE, OHIO. Refuse Cleaning Mixture,	Mars, Mars Milling & Feed Co.	6.69	15.44	16.50
		Total average,	9.55	16.56	.....
	MIXED FEED-WHEAT BY-PRODUCTS.				
2304	CAVALIER MILLING CO., CAVA- LIER, N. DAK. Wheat Mixed Feed,	Montrose, Andre & Sweet,	10.10	16.19	14.00
2242	DAYTON MILLING CO., TOWANDA, PA. D. M. Co. Wheat Feed,	Towanda, Dayton Milling Co.	10.02	14.88	.....
2308	DULUTH-SUPERIOR MILLING CO., DULUTH, MINN. Boston Mixed Feed,	Montrose, Harrington & Wilson.	10.18	16.13	15.00
2353	Boston Mixed Feed,	Honesdale, Honesdale Milling Co.	10.44	15.94	15.00
2278	GLEN ULLIN ROLLER MILLS, GLEN ULLIN, N. DAK. Bran & Shorts,	Tunkhannock, Brown & Fassett.	9.40	16.38	15.00
2200	KEMPER MILL & ELEVATOR CO., KANSAS CITY, MO. Crescent Mixed Feed,	Wellsboro, George C. & F. A. Brooks.	9.43	17.00	16.00
2339	Crescent Mixed Feed,	Scranton, C. P. Matt- hews & Sons, Inc.	8.87	17.81	16.00
1643	RUSSELL-MILLER MILLING CO., MINNEAPOLIS, MINN. Occident Wheat Feed,	Smethport, F. A. Green,	10.00	16.88	15.00
2358	Occident Wheat Feed,	Honesdale, Wayne Mill- ing Co.	10.79	15.00	15.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
6.78	6.00	4.72	7.50	1 40	Wheat middlings and palm oil.	As certified,	1421
7.59	6.00	6.03	7.50	22 00	Wheat middlings and palm oil.	As certified,	1860
7.16	.....	5.37	.....	25 00			
5.60	4.00	4.61	6.00	30 00	.....	Wheat middlings and mill run ground screenings.	1282
4.80	4.00	6.74	6.00	2 10	May contain ground screenings not exceeding mill run.	Wheat middlings and ground grain screenings not exceeding mill run.	2268
5.89	5.50	3.01	10.00	28 00	Chippawa fancy middlings with ground screenings not exceeding mill run.	As certified,	1629
5.64	4.00	9.47	11.00	2 00	Wheat standard middlings with ground screenings not exceeding mill run.	Wheat middlings and large amount of ground grain screenings.	2404
8.37	7.50	5.52	8.50	1 35	Wheat, rye middlings and palm oil.	As certified,	1504
5.74	.....	5.91	.....	31 70			
5.72	4.50	8.06	10.00	26 00	Unadulterated wheat mixed feed.	As certified,	2304
4.99	.....	8.03	.....	1 85	.....	Wheat bran and wheat middlings.	2242
5.27	4.25	8.62	9.75	1 80	Wheat bran, middling low grade flour with ground screenings not exceeding mill run.	As certified,	2308
5.37	4.25	8.23	9.75	1 85	Wheat bran, middling low grade flour with ground screenings not exceeding mill run.	As certified,	2353
6.15	4.00	7.75	10.00	1 75	.....	Wheat bran, wheat middlings and small amount of ground grain screenings.	2278
4.43	4.00	7.82	10.00	34 00	Bran, middlings and ground wheat screenings not exceeding mill run.	As certified,	2200
3.60	4.00	8.70	10.00	2 00	Bran, middlings and ground wheat screenings not exceeding mill run.	Wheat bran, wheat middlings, mill run ground screenings and small amount small whole weed seeds.	2339
6.17	4.50	7.82	10.00	1 60	Made from wheat only.	As certified,	1643
5.64	4.50	7.32	10.00	1 85	Made from wheat only.	As certified,	2358

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2266	SHEFFIELD-KING MILLING CO., MINNEAPOLIS, MINN. Gold Mine Feed,	Skinner Eddy, Cline Milling Co.	Per ct. 8.43	Per ct. 15.88	Per ct. 15.90
	WHEAT BRAN.	Average,	9.76	16.21	.....
1370	BAY STATE MILLING CO., WIN- ONA, MINN. Winona Coarse,	Mapleton, H. O. Andrews,	8.81	14.44	13.00
1716	BUFFALO FLOUR MILLING CO., LEWISBURG, PA. Wheat Bran,	Philadelphia, P. A. Mc- Clain & Co.	10.64	14.56	14-17
2179	L. G. CAMPBELL MILLING CO., OWATONNA, MINN. Choice,	Williamson, Williamson Elevator.	8.92	17.81	13.40
2272	THE COMMERCIAL MILLING CO., DETROIT, MICH. Wheat Bran,	Skinner Eddy, C. A. Jayne.	9.02	16.50	14.50
1938	Wheat Bran,	Wilkes-Barre, C. P. Mat- thews & Sons, Inc.	11.42	14.69	14.50
2240	DAYTON MILLING CO., TOWANDA, PA. D. M. Co.,	Towanda, Dayton Milling Co.	10.25	15.06	.....
2158	THE WILLIAM KELLY MILLING CO., HUTCHISON, KANS. Wheat Bran,	Knoxville, Deerfield Mill- ing Co.	5.64	17.31	14.50
1590	LISTMAN MILL CO., LACROSSE, WIS. Elmco Fancy,	Doylestown, H. S. Beid- ler.	9.10	14.87	15.51
1882	Elmco Fancy,	Coatesville, J. T. Gay & Son.	9.90	14.38	15.51
1961	THE MANSFIELD MILLING CO., INC., MANSFIELD, O. Wheat Bran,	Lewisburg, E. C. Noll, ..	9.80	15.69	13.00
1628	MAPLE LEAF MILLING CO., LTD., TORONTO, CANADA. Wheat Bran,	Bradford, Smith Broth- ers.	11.18	16.19	15.50
2194	THE MONARCH MILLING CO., HUT- CHINSON, KANS. Wheat Bran,	Wellsboro, Equity Co-Op- erative Exchange.	9.53	17.19	14.50
1597	NEW PRAGUE FLOURING MILL CO., NEW PRAGUE, MINN. Wheat Bran,	Philadelphia, Charles Schaal.	8.45	15.81	13.10
2044	NIAGARA FALLS MILLING CO., NIAGARA FALLS, N. Y. Choice,	Clarion, A. C. Snyder & Son.	11.00	15.88	14.00
2093	THE NORTHWESTERN CONSOLI- DATED MILLING CO., MINNEAPOLIS, MINN. Pure,	West Chester, C. C. Hip- ple & Son.	9.43	15.31	14.50
1354	Pure,	Bedford, H. H. Lysinger,	9.58	15.00	14.50
1323	PATTERSON MILLING CO., SALTS- BURG, PA. Wheat Bran,	Vandergrift, Elkin Broth- ers.	11.57	14.94	15.07

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.76	Per ct. 4.90	Per ct. 8.82	Per ct. 8.98	1 85	.....	Wheat bran, shorts, low-grade flour and ground grain screenings.	2266
5.21	.....	8.07	.....	36 10	.....	
5.81	4.00	10.87	12.00	1 40	.....	Wheat bran,	1370
4.93	3-6	10.68	.....	1 45	.....	Wheat bran and ground grain screenings.	1716
5.04	4.50	9.41	12.20	29 00	.....	Wheat bran,	2179
4.96	3.50	9.37	12.00	1 65	.....	Wheat bran,	2272
5.47	3.50	9.24	12.00	1 45	.....	Wheat bran,	1938
4.55	.....	9.77	.....	1 65	.....	Wheat bran,	2240
3.96	3.50	9.30	10.00	1 60	.....	Wheat bran,	2158
5.61	3.63	9.45	11.37	27 00	.....	Wheat bran,	1590
5.12	3.63	10.51	11.37	1 40	.....	Wheat bran and ground grain screenings.	1882
4.28	4.00	9.04	13 00	28 00	Wheat bran,	Wheat bran and small amount grain screenings with whole weed seeds.	1961
6.01	4.50	9.76	12.00	26 00	Wheat bran,	As certified,	1628
3.98	3.50	9.96	10.00	1 65	.....	Wheat bran,	2194
5.01	4.50	9.53	10.50	26 00	.....	Wheat bran,	1597
5.49	3.00	9.95	13.00	1 60	.....	Wheat bran and small amount ground grain screenings.	2044
5.18	4.00	11.38	11.00	32 00	Pure wheat bran. No screenings, no scourings.	As certified,	2093
5.66	4.00	10.28	11.00	1 35	.....	Wheat bran,	1354
6.26	2.90	10.13	7.90	1 35	.....	Wheat bran and large amount whole weed seeds.	1323

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2317	RUSSEL MILLER MILLING CO., MINNEAPOLIS, MINN. Wheat Bran,	Hop Bottom, Foster Mill Co., Inc.	Per ct. 9.28	Per ct. 14.00	Per ct. 13.00
1363	SLEEPY EYE FLOUR MILLS CO., MINNEAPOLIS, MINN. Pure,	Huntingdon, L. S. Good- man & Son.	9.22	15.13	14.50
2228	J. H. WEBER, CENTRE HALL, PA. Pure Winter,	Altoona, H. H. Langdon,	9.64	15.50	13-15
1587	WEL SABBOTT-NIEMAN CO., SCHUYLER, NEB. Pure,	Hatfield, Estate of George S. Snyder.	9.81	16.19	14.00
2395	FRANK C. WILLIAMS, EASTON, PA. Wheat Bran,	Easton, Frank C. Wil- liams.	10.77	15.56	14.00
1969	L. E. YAGEL, LAUREL PARK, PA. Bran,	Mifflinburg, Luther Bog- enrief.	10.53	16.06	.....
220- 172-	UNKNOWN. Wheat Bran,	Homestead, W. J. Hall, Somerset, Saylor & Woy,	9.55 10.66	15.25 15.50	..........
		Average,	9.74	15.55	.....
	WHEAT BRAN WITH ADMIXTURES.				
142	THE ABILENE FLOUR MILLS CO., ABILENE, KANS. Wheat Bran and Screenings,	Lansdale, A. C. God- shall & Co.	10.34	17.31	14.00
1970	BIG DIAMOND MILLS CO., MINNE- APOLIS, MINN. Big Diamond Wheat Bran,	Mifflinburg, Luther Bog- enrief.	9.90	16.88	14.00
1734	Big Diamond Wheat Bran,	Philadelphia, George R. Walton.	10.86	14.00	14.00
		Average,	10.38	15.44	.....
1641	BLAINE MACKAY, LEE CO., NORTH EAST, PA. Pure Wheat Bran and Ground Screen- ings,	Smethport, F. A. Green.	10.43	17.94	15.40
2080	CANNON VALLEY MILLING CO., MINNEAPOLIS, MINN. C. V. Wheat Bran with Screenings, ..	Millerstown, I. B. Se- christ.	4.26	14.88	15.00
1565	GEORGE C. CHRISTIAN, MINNE- APOLIS, MINN. Jersey Wheat Bran with Ground Screenings not Exceeding Mill Run, .	Clearfield, J. T. Mur- phy.	8.76	14.06	13.00
2372	THE COCKLEY MILLING CO., LEX- INGTON, OHIO. Wheat Bran,	Etna, John E. Ross,	10.17	15.94	15.20
1646	CROUCH BROTHERS, ERI, PA. Wheat bran with Screenings,	Smethport, Herzog Mill- ing Co.	10.56	16.94	15.00
1957	B. H. ECKHART MILLING CO., CHI- CAGO, ILL. Bran with Ground Screenings,	New Castle, P. Wagner & Son.	10.46	15.19	14.00

FEEDING STUFFS COLLECTED IN 1916.—Continued

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.44	Per ct. 4.00	Per ct. 10.42	Per ct. 11.00	1 70	Made from wheat only.	As certified,	2317
5.04	4.30	9.74	10.54	1 40	.....	Wheat bran,	1363
3.67	3-4	6.41	.....	1 70	.....	Wheat bran,	2228
4.41	3.50	8.75	10.00	26 00	.....	Wheat bran,	1587
4.85	5.00	9.29	10.00	1 65	Fresh ground wheat bran.	As certified,	2395
4.31	.....	7.41	.....	1 40	.....	Wheat bran,	1969
4.30	.....	8.77	.....	1 70	.....	Wheat bran,	2802
4.47	.....	9.31	.....	1 45	.....	Wheat bran,	1723
4.95	.....	9.54	.....	29 80	.....	.....	.....
4.19	3.50	8.55	10.00	25 00	Wheat bran and screenings, not to exceed 10 per cent. screenings.	As certified,	1425
4.95	4.00	10.08	11.07	1 40	Wheat bran with ground screenings not exceeding mill run.	As certified,	1970
5.00	4.00	10.63	11.07	1 40	Wheat bran with ground screenings not exceeding mill run.	As certified,	1734
4.98	.....	10.35	.....	1 40	.....	.....	.....
4.84	4.00	9.03	10.00	1 30	.....	Wheat bran and ground grain screenings.	1641
5.46	4.00	10.14	14.00	1 60	Wheat bran with ground screenings not exceeding mill run.	As certified,	2080
5.03	4.00	10.95	12.00	1 40	.....	Wheat bran with mill run ground screenings	1565
4.54	4.40	9.26	9.00	1 70	Pure products of wheat only including mill run screenings.	Wheat bran,	2372
5.11	5.00	8.32	9.00	1 35	Wheat bran with ground screenings not exceeding mill run.	As certified,	1616
4.24	4.00	9.81	11.00	1 40	.....	Wheat bran with mill run ground screenings.	1957

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1894	EVERETT-AUGHENBAUGH & CO., WASECA, MINN. E-A Co.,	Gettysburg, C. M. Wolf.	Per ct. 10.78	Per ct. 14.43	Per ct. 14.00
1527	THE GRAIN PRODUCTS CO., WICH ITA, KANS. Wheat Bran with Screenings,	Latrobe, Latrobe Feed & Supply Co.	9.96	17.06	14.50
2401	W. J. JENNISON CO., MINNEAPOLIS, MINN. Wheat Bran,	Minneapolis, Heterick, Wilson & Co.	9.90	15.56	15.00
1317	THE LARABEE FLOUR MILLS CO HUTCHISON, KANS. Wheat Bran with Mill Run Screenings not to exceed 8 per cent.	McKeesport, Keystone Commercial Co.	9.84	16.88	15.00
2107	LINESVILLE MILLING CO., LINESVILLE, PA. Wheat Bran with Ground Screenings.	Linesville, Linesville Milling Co.	9.78	14.94	.....
1479	LONDON MILLS CO., LONDON OHIO. Wheat Bran—Corn Bran,	Wilmington, Johnston & Smith.	10.10	16.44	13.00
1327	MANEY MILLING CO., OMAHA NEB. Wheat Bran with Ground Screenings not exceeding Mill Run.	Hattanning, J. A. Gault Co.	10.04	15.56	14.00
1366	NATIONAL FEED CO., ST. LOUIS MO. Wheat Bran with Screenings not Exceeding Mill Run.	Huntingdon, Huntingdon Milling Co.	9.34	16.63	14.50
1908	NEW PRAGUE FLOURING MILL CO NEW PRAGUE, MINN. Seal of Minnesota Wheat Bran,	Mayne, I. W. Conner & Co.	12.1	14.13	13.10
1344	PHOENIX MILLING CO., DAVENPORT, IOWA. Bran with Wheat Screenings not to exceed Mill Run.	Hentown, A. T. Stover Estate.	9.35	15.38	15.30
1290	RED WING MILLING CO., RED WING, MINN. Bixota Bran with Ground Screenings not exceeding mill run.	Johnstown, Johnstown Milling Co.	9.45	14.44	15.00
1283	STANDARD-TILTON MILLING CO. ST. LOUIS, MO. Wheat Bran with Screenings not exceeding Mill Run.	Windber, Claude Davis.	10.27	17.50	14.50
1532	Wheat Bran with Screenings not exceeding Mill Run.	Greensburg, McFarland Supply Co.	9.65	17.88	14.50
1489	Wheat Bran with Screenings not exceeding Mill Run.	Quakertown, A. K. Smith.	9.49	17.81	14.50
		Average,	9.86	17.73	.....
2107	STAR & CRESCENT MILLING CO. CHICAGO ILL. Star Bran with Ground Screenings,	Linesville, Linesville Milling Co.	10.1	15.38	15.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.37	Per ct. 3.00	Per ct. 10.28	Per ct. 12.00	1 30	Wheat bran with ground screenings not exceeding mill run.	As certified,	1894
4.42	3.00	8.56	10.00	1 40	Wheat bran with mill run of screenings not to exceed 8 per cent. only.	As certified,	1537
4.66	4.00	10.26	10.00	1 70	Wheat bran with ground screenings not exceeding mill run	As certified,	2401
4.59	3.50	8.56	10.50	1 56	.....	Wheat bran with mill run ground screenings.	1311
4.92	.....	9.68	.....	1 55	.....	Wheat bran,	2107
4.09	4.00	7.97	9.00	1 45	Wheat bran, corn bran.	Wheat bran, whole wheat and corn bran.	1479
4.77	4.25	9.56	10.50	25 00	.....	Wheat bran with mill run ground screenings.	1327
3.95	4.00	10.04	10.00	1 40	Wheat bran and screenings only.	As certified,	1366
4.86	4.50	9.53	10.50	25 00	Wheat bran with ground screenings not exceeding mill run	As certified,	1908
5.04	4.10	11.12	13.10	27 00	Bran with wheat screenings not to exceed mill run.	As certified,	1344
6.43	4.00	11.54	11.00	1 40	.....	Wheat bran with mill run ground screenings.	1290
4.59	4.00	8.89	9.50	26 00	.....	Wheat bran with mill run ground screenings.	1283
4.58	4.00	8.46	9.50	27 00	.....	Wheat bran with mill run ground screenings.	1532
4.75	4.00	8.64	9.50	1 30	.....	Wheat bran, ground screenings and small amount small whole weed seeds.	1489
4.64	.....	8.66	.....	26 30	.....	.....	.....
4.63	4.00	10.42	10.00	1 50	Wheat bran with ground screenings not exceeding mill run.	As certified,	2105

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN.		Per ct.	Per ct.	Per ct.
2406	Wheat Bran,	Homer City, T. K. George.	8.32	15.88	13.00
1608	Wheat Bran,	Philadelphia, C. G. Hause & Brother.	9.20	14.13	13.00
		Average,	8.76	15.01	.....
	WESTERN FLOUR MILLS CO., DAVENPORT, IOWA.				
1319	Black Hawk Wheat Bran with Ground Screenings not exceeding Mill Rm.	Leechburg, Harry May,	10.04	15.06	14.50
	ZENITH MILLING CO., KANSAS CITY, MO.				
1772	Wheat Bran and Screenings,	Punxsutawney, Mahoning Valley Milling Co.	11.66	16.19	15.00
		Total average,	9.83	15.89	.....
	RYE OFFALS.				
	RYE MIDDLINGS.				
	THE NORTH STAR FEED & CEREAL CO., MINNEAPOLIS, MINN.				
1455	Rye Middlings,	Uniontown, J. F. Hogsett & Son.	10.73	16.81	14.50
	WASHBURN-CROSBY CO., MINNEAPOLIS, MINN.				
2381	Pure Rye Middlings,	Stroudsburg, Frank LeBar.	11.23	17.25	14.00
		Average,	10.98	17.03	.....
	RYE MIDDLINGS WITH ADMIXTURES.				
	J. B. A. KERN & SONS, MILWAUKEE, WIS.				
1694	Eagle Rye Middlings,	Warren, Warren City Mills.	11.73	16.19	16.00
	MINER-HILLARD MILLING CO., WILKES-BARRE, PA.				
2125	Choice Rye Middlings,	Scranton, Miner-Hillard Milling Co.	10.72	16.75	12.15
		Average,	11.22	16.47	.....
	WHEAT AND RYE OFFALS.				
	MAUSER MILL CO., TREICHLERS, PA.				
1448	Mixed Wheat and Rye W. Middlings,	Allentown, R. A. Wagner.	13.03	15.38	12.00
	OAT BY-PRODUCTS.				
	OAT FEEDS.				
	J. C. MITCHELL, CHICAGO, ILL.				
1412	Oat Feed,	New Brighton, L. H. Hornby & Son.	5.09	5.46	.....
	THE QUAKER OATS CO., CHICAGO, ILL.				
2576	Vim Feed,	Towanda, F. H. Hagerman.	6.45	5.50	5.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.15	Per ct. 4.00	Per ct. 9.90	Per ct. 13.00	1 80	Wheat bran with ground screenings not exceeding mill run.	As certified,	2406
5.35	4.00	11.45	13.00	28 00	Wheat bran with ground screenings not exceeding mill run.	As certified,	1698
5.25	.....	10.67	.....	32 00			
4.93	4.00	9.96	11.00	1 40	.....	Wheat bran with mill run ground screenings.	1019
4.11	3.25	9.93	13.50	29 00	Wheat bran and screenings not exceeding mill run.	As certified,	1772
4.81	.....	9.71	.....	28 46			
3.20	1.50	4.94	5.20	1 35	.....	Rye middlings,	1450
3.47	3.00	5.16	6.00	1 80	.....	Rye middlings,	2581
3.34	.....	5.05	.....	1 58			
3.47	3.00	5.62	7.00	1 75	Eagle rye middlings with ground screenings not exceeding mill run.	As certified,	1691
3.36	2.5-5	4.57	3-5	1 90	Choice rye middlings with screenings not exceeding mill run.	As certified,	2325
3.42	.....	5.09	.....	1 83			
4.63	4.00	4.33	10.00	1 70	.....	Wheat middlings and rye middlings.	1348
1.92	.. ...	26.92	.....	.....	.....	Oat feed, ..	
1.48	2.00	26.81	28.00	25 00	Oat meal mill by product (oat middlings, oat hulls, oat shorts).	Oat feed, ..	

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Pound.	Guaranteed.
	ROBIN HOOD MILLS, LTD., MOOSE JAW, CANADA.				
2380	Oat Feed,	Stroudsburg, Frank Le-Bar.	Per ct. 5.41	Per ct. 5.57	Per ct. 5.25
2124	Oat Feed,	Honey Brook, J. K. Lewis,	7.35	7.44	5.25
1528	Oat Feed,	South Perkasio, W. E. Savacool.	5.82	8.13	5.25
		Average,	6.19	7.05	.....
		Total average,	6.02	6.42	.....
	OAT HULLS.				
1929	THE H.-O. CO., BUFFALO, N. Y. The H.-O. Co.'s Re-Ground Oat Hulls,	Wilkes-Barre, Robbins Milling Co.	7.49	4.88	4.00
	BUCKWHEAT OFFALS.				
	BUCKWHEAT MIDDINGS.				
2259	F. H. HAGERMAN, TOWANDA, PA. Buckwheat Middlings,	Towanda, F. H. Hagerman.	12.83	28.25	.....
2277	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Pure Buckwheat Middlings,	Tunkhannock, Brown & Fassett.	12.09	26.06	23-26
2251	H. E. OBERT, DUSHORE, PA. Buckwheat Middlings,	Dushore, H. E. Obert, ..	13.25	28.88	.....
		Average,	12.72	27.73	.....
	BUCKWHEAT FEEDS.				
2239	DAYTON MILLING CO., TOWANDA, PA. Buckwheat Feed,	Towanda, Dayton Milling Co.	11.80	19.88	15-20
1511	H. J. KLINGER & CO., BUTLER, PA. Buckwheat Feed,	Butler, H. J. Klinger & Co.	7.98	10.00	8.00
		Average,	9.89	14.94	.....
	ALFALFA MEALS.				
2074	AMERICAN MILLING CO., PEORIA, ILL. Alfalfa Meal,	Mechanicsburg, A. B. Harnish.	7.70	14.81	.....
1326	THE ALBERT DICKINSON CO., CHICAGO, ILL. Alfalfa Meal,	Kittanning, J. A. Gault Co.	8.30	14.44	12.00
2051	JOHN W. ESHELMAN, LANCASTER, PA. Alfalfa Meal,	Carlisle, W. S. Stuart, ..	7.88	15.50	.....
1938	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Ground Alfalfa Meal,	Monongahela City, D. E. Gamble.	7.21	14.19	.....
2281	HALES & EDWARDS CO., CHICAGO, ILL. Red Comb,	Jeannette, Keystone Supply Co.	6.88	14.81	13.50
2032	Red Comb,	DuBois, Timlin, Kelly Co.	8.06	15.83	13.50
		Average,	7.47	15.31	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.41	2.50	26.42	28.00	1 60	.....	Oat feed,	2380
2.93	2.50	23.70	28.00	22 00	.....	Oat feed,	2124
3.26	2.50	21.75	28.00	25 00	.....	Oat feed,	1528
2.87	.....	23.95	.....	26 33			
2.40	.....	25.12	.....	26 00			
1.90	2.00	27.73	28.00	1 30	.....	Oat hulls,	1929
7.84	.....	5.47	.....	38 00	.....	Buckwheat middlings, ..	2259
7.09	5-8	9.39	.....	1 85	.....	Buckwheat middlings, ..	2277
7.99	.....	4.77	.....	1 80	Made from buckwheat,	Buckwheat middlings, ..	2251
7.64	.....	6.54	.....	37 00			
5.30	3-5	21.41	20-30	1 65	.....	Buckwheat feed,	2239
2.44	1.50	37.46	40.00	1 25	.....	Buckwheat feed,	1511
3.87	.....	28.43	.....	1 45			
1.51	.....	30.23	.....	30 00	.....	Alfalfa meal,	2074
1.65	1.00	30.10	35.00	1 60	Made from alfalfa hay,	As certified,	1323
1.20	.....	32.06	.....	1 40	.....	Alfalfa meal,	2051
1.71	.....	30.33	.....	1 75	.....	Alfalfa meal,	1998
1.95	1.00	29.38	35.00	1 90	Made from alfalfa,	As certified,	2281
1.86	1.00	26.04	35.00	1 55	Made from alfalfa,	As certified,	2032
1.91	.....	27.71	.....	1 73			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2276	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Alfalfa Meal,	Tunkhannock, Brown & Fasset.	Per ct. 6.80	Per ct. 17.13	Per ct. 14.00
2374	NATIONAL FEED CO., ST. LOUIS MO. Pure,	East Stroudsburg, J. M. Wyckoff.	12.87	14.13	14.00
1374	OMAHA ALFALFA MILLING CO., OMAHA, NEB. Alfalfa Meal,	South Bethlehem, C. C. Lenn & Co.	6.90	13.94	12.00
1556	Alfalfa Meal,	Phillipsburg, J. O. Reed, ..	7.53	17.00	12.00
1599	Alfalfa Meal,	Philadelphia, Charles Schaal.	7.32	16.44	12.00
		Average,	7.25	15.79	.....
1269	M. C. PETERS MILL CO., OMAHA, NEB. Lucern,	Johnstown, Swope Brothers.	8.06	15.44	12.00
1575	THE PHILADELPHIA SEED CO., PHILADELPHIA, PA. Alfalfa Meal,	Sellersville, J. A. Kooker.	6.59	13.94	.....
2323	THE OTTO WEISS MILLING CO., WICHITA, KANS. Alfalfa Meal,	Seranton, Miner-Hillard Milling Co.	7.40	16.04	.....
1709	Pure Dustless,	Philadelphia, Ezl. Dunwoody Co.	10.24	19.50	14.00
		Average,	8.82	17.77	.....
1586	THE WICHITA ALFALFA STOCK FOOD CO., WICHITA, KANS. Pure,	Hatfield, Estate of George S. Snyder.	7.52	16.63	12.00
		Total average,	7.97	15.61	.....
DRIED BEEF PULP.					
1274	THE LAPROWE MILLING CO., DETROIT, MICH. Dried Beet Pulp,	Johnston, G. Bostert & Son.	7.12	8.81	8.00
2140	Dried Beet Pulp,	Canton, Canton Mercantile Co.	9.51	9.94	8.00
1434	Dried Beet Pulp,	Colmar, W. H. D. Godshall.	7.75	10.00	8.00
1480	Dried Beet Pulp,	Wilkinsburg, Johnston & Smith.	8.38	11.19	8.00
2291	Dried Beet Pulp,	Hays, John Lachman & Co.	8.89	10.06	8.00
1270	Dried Beet Pulp,	Johnstown, Swope Brothers.	9.54	9.19	8.00
		Average,	8.53	9.87	.....
1788	MICHIGAN SUGAR CO., SAGINAW, MICH. Dried Beet Pulp,	Sunbury, Blank & Gottshall.	9.15	9.75	8.00
1518	Dried Beet Pulp,	Telford, A. B. Godshall.	8.45	10.38	8.00
2335	Dried Beet Pulp,	Seranton, C. P. Matthews & Son, Inc.	9.01	9.19	8.00
		Average,	8.87	9.77	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.22	Per ct. 1.00	Per ct. 25.48	Per ct. 30.00	1 50	.....	Alfalfa meal,	2276
1.64	1.25	32.26	33.00	1 55	Made from ground alfalfa hay.	As certified,	2374
1.32	1.00	32.71	30.00	1 75	Alfalfa meal,	As certified,	1374
1.56	1.00	26.90	30.00	1 50	Alfalfa meal,	As certified,	1556
1.45	1.00	27.77	30.00	28 00	Alfalfa meal,	As certified,	1599
1.44	.....	29.12	.....	31 00			
1.75	0.50	28.72	33.00	1 60	Made from pure alfalfa hay.	As certified,	1269
1.29	.....	34.55	.....	1 85	.....	Alfalfa meal,	1575
2.07	.....	28.23	.....	1 50	.....	Alfalfa meal,	2323
3.13	1.50	19.08	30.00	26 00	Alfalfa,	Alfalfa meal,	1709
2.60	.....	23.68	.....	28 00			
2.71	1.50	25.01	30.00	31 00	.....	Alfalfa meal,	1586
1.81	.....	28.68	.....	31 50			
0.63	0.50	19.89	20.00	29 00	Residue of sugar beets dried after extraction of sugar.	As certified,	1274
0.55	0.50	18.39	20.00	1 40	Residue of sugar beets dried after extraction of sugar.	As certified,	2140
0.73	0.50	18.93	20.00	1 45	Residue of sugar beets dried after extraction of sugar.	As certified,	1434
0.85	0.50	18.56	20.00	1 50	Residue of sugar beets dried after extraction of sugar.	As certified,	1480
0.90	0.50	18.25	20.00	35 00	Residue of sugar beets dried after extraction of sugar.	As certified,	2391
1.37	0.50	19.60	20.00	1 50	Residue of sugar beets dried after extraction of sugar.	As certified,	1270
0.84	.....	18.93	.....	30 17			
1.19	0.50	18.15	20.00	1 50	Residue of sugar beets dried after extraction of sugar.	As certified,	1788
1.33	0.50	18.49	20.00	1 40	Residue of sugar beets dried after extraction of sugar.	As certified,	1518
1.08	0.50	17.94	20.00	1 70	Residue of sugar beets dried after extraction of sugar.	As certified,	2335
1.20	.....	18.19	.....	1 53			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2346	OWOSSO SUGAR CO., OWOSSO MICH. Dried Beet Pulp,	Carbondale, Carbondale Milling Co.	Per ct. 5.06	Per ct. 10.39	Per ct. 8.00
		Total average,	8.28	9.89	.....
	MIXED FEEDS.				
	PROPRIETARY DAIRY FEEDS.				
1903	ALTOONA FEED MILLS, ALTOONA, PA. Dairy Feed,	Altoona, Altoona Feed Mills.	10.23	15.63	16.00
2279	AMERICAN MILLING CO., PEORIA, ILL. Amco Dairy Feed,	Jeannette, Keystone Sup ply Co.	6.82	28.13	25.00
2091	Amco Dairy Feed,	Chadds Ford Junction, Harry Pyle & Sons.	7.33	29.47	25.00
2363	Amco Dairy Feed,	Castle Shannon, George Renton & Co.	6.25	28.19	25.00
2054	Amco Dairy Feed,	Carlisle, W. S. Stewart.	5.33	27.69	25.00
		Average,	6.44	28.37	.....
1448	BARLEY FOODS CO., MORGAN W. VA. Dairy Feed,	Dunbar, Hardy & Porter.	8.01	15.00	.....
2201	GEORGE C. & F. A. BROOKS, WELLSBORO, PA. Brooks' Mixture for Milch Cows,	Wellsboro, George C. & F. A. Brooks.	8.61	25.27	24.00
1668	BUFFALO CEREAL CO., BUFFALO N. Y. Bufceco Creamery Feed,	Philadelphia, Fred L. Le- mont.	8.72	19.75	13-20
1757	CHAPIN & CO., HAMMOND, IND. Unicorn Dairy Ration,	Emporium, Emporium Milling Co.	8.72	27.00	26.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 0.63	Per ct. 0.50	Per ct. 19.82	Per ct. 20.00	1 75	Residue of sugar beets dried after extraction of sugar.	As certified,	2346
0.93	.....	18.80	.....	30 80			
4.10	3.00	9.27	9.00	33 00	Corn, gluten, beet pulp, bran, rye middlings, dried brewers' grains and 1% salt.	As certified,	1803
8.00	8.00	13.03	14.00	33 00	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains and salt.	As certified,	2279
7.53	8.00	13.96	14.00	33 00	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains and salt.	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains, malt sprouts and salt.	2091
7.95	8.00	13.57	14.00	40 00	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains and salt.	As certified,	2363
7.18	8.00	13.96	14.00	32 00	Corn gluten feed, clipped oat by-product, corn, distillers' dried grains and salt.	As certified,	2054
7.67	.....	13.63	.....	34 50			
5.54	.....	9.31	.....	1 85	.....	Barley and buckwheat middlings.	1448
6.68	6.75	10.06	10.00	36 00	Choice cottonseed meal, distillers' grains, gluten feed, buckwheat shorts, wheat bran, hominy feed and less than 1% salt.	As certified,	2201
4.78	4-5	11.08	8-9	1 75	Ground corn, wheat bran and middlings, hominy feed, corn gluten feed, cottonseed meal, oat shorts, oat middlings, oat hulls and $\frac{1}{2}$ of 1% salt.	As certified,	1668
7.43	5.50	10.70	10.00	1 80	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-products with corn bran), barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified,	1751

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1993	Unicorn Dairy Ration,	Monessen, J. A. Hagersop	Per ct. 7.72	Per ct. 26.25	Per ct. 26.00
2098	Unicorn Dairy Ration,	West Chester, C. C. Hipple & Son.	8.40	28.94	26.00
2162	Unicorn Dairy Ration,	Westfield, H. Z. Pride & Son.	8.60	26.88	26.00
1527	Unicorn Dairy Ration,	South Perkasio, W. E. Savacool.	6.25	27.94	26.00
1513	Unicorn Dairy Ration,	Butler, George Walter & Sons.	8.05	26.69	26.00
		Average,	7.95	27.28	.....
1408	THE DEWEY BROTHERS CO., BLANCHESTER, OHIO. Dewey's Ready Ration,	Monaca, Monaca Roller Mills.	8.01	25.13	25.00
2262	Dewey's Ready Ration,	Laceyville, A. L. Vander-vort.	6.43	26.81	25.00
		Average,	7.22	25.97	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.86	Per ct. 5.50	Per ct. 10.41	Per ct. 10.00				
				1 90	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-products with corn bran), barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified,	1933
6.89	5.50	10.31	10.00	37 00	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-products with corn bran), barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified,	2098
7.54	5.50	9.91	10.00	2 00	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-products with corn bran), barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified,	2162
6.99	5.50	10.61	10.00	34 00	Ajax flakes (corn distillers' grains), gluten feed (corn starch by-product with corn bran), cottonseed meal, hominy meal, barley feed, malt sprouts, brewers' grains, pure wheat bran and linseed meal.	As certified,	1527
6.42	5.50	10.70	10.00	35 00	Corn distillers' grains, cottonseed meal, linseed meal, hominy meal, gluten feed (corn starch by-products with corn bran), barley feed, malt sprouts, wheat bran, brewers' grains and salt.	As certified,	1513
7.02	.....	10.44	.....	36 67			
8.05	6.00	9.76	10.00	1 70	Eagle distillers' dried grains, linseed oil meal, cottonseed meal, malt sprouts, wheat bran, wheat middlings, hominy feed and $\frac{1}{2}$ of 1% salt.	As certified,	1403
8.12	6.00	11.44	10.00	2 05	Eagle distillers' dried grains from corn, oil meal, cottonseed meal, malt sprouts, wheat bran, wheat middlings, hominy feed and $\frac{1}{2}$ % salt.	As certified,	2262
8.09	.....	10.60	.....	1 88			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2197	EQUITY CO-OPERATIVE EXCHANGE, WELLSBORO, PA. Equity Mixture,	Wellsboro, Equity Co-op- erative Exchange.	Per ct. 8.81	Per ct. 24.06	Per ct.
1559	GLOBE ELEVATOR CO., BUFFALO, N. Y. Buffalo Dairy Mixed Feed,	Phillipsburg, Centre Mill- ing Co.	10.39	13.00	12-15
2203	Globe Creamery Feed,	Tioga, J. H. Howe,	8.29	24.63	23-25
2150	Globe Creamery Feed,	Troy, H. M. Spalding & Son.	9.15	23.25	23-25
		Average,	8.72	23.94	.....
2560	D. H. GRANDIN MILLING CO., JAMESTOWN, N. Y. Grandin's Milk Maker,	Hawley, Ernest Vogler, .	7.96	25.56	22.5-26
2356	Grandin's Milk Maker,	Honesdale, Wayne Milling Co.	7.60	27.00	22.5-26
		Average,	7.78	26.28	.....
1760	JAMESTOWN ELECTRIC MILLS, JAMESTOWN, N. Y. Jem Milk Maker,	Coudersport, Eulalia Mills	10.68	19.81	24.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.88	Per ct.	Per ct. 8.61	Per ct.	1 85	Corn distillers' grains, gluten, bran, cottonseed meal, hominy meal, corn meal and $\frac{1}{2}$ of 1% salt.	As certified,	2197
6.58	5-7	7.50	8-9	1 55	Wheat bran with ground screenings, corn bran, wheat flour, wheat middlings and salt $\frac{1}{2}$ of 1% salt.	As certified,	1559
5.82	5-7	11.04	9.00	1 90	Rye and corn distillers' dried grains, brewers' dried grains, dried beet pulp, cottonseed meal, linseed oil meal, clipped oat by-product, wheat bran and wheat middlings with ground screenings, corn gluten feed and salt $\frac{1}{2}$ of 1%	As certified,	2203
4.22	5-7	8.84	9.00	1 80	Rye and corn distillers' dried grains, brewers' dried grains, dried beet pulp, cottonseed meal, linseed oil meal, clipped oat by-product, wheat bran and wheat middlings with ground screenings, corn gluten feed and salt $\frac{1}{2}$ of 1%.	As certified,	2150
5.03	.....	9.94	.....	1 85			
5.42	4-7	11.15	10-13	2 15	Linseed oil meal, cottonseed meal, gluten feed, distillers' dried grains, brewers' dried grains, hominy feed, malt sprouts, wheat bran, wheat middlings and a small quantity of salt.	As certified,	2360
6.52	4-7	10.42	10-13	2 10	Linseed oil meal, cottonseed meal, gluten feed, distillers' dried grains, brewers' dried grains, hominy feed, malt sprouts, wheat bran, wheat middlings and a small quantity of salt.	As certified,	2356
5.97	.....	10.78	.....	2 13			
5.66	6.00	8.79	11.00	35 00	Corn distillers' dried grains, brewers' dried grains, wheat bran, wheat middlings, corn gluten feed, cottonseed meal, linseed oil meal, corn meal, corn oil meal, malt sprouts and a small percentage of fine salt.	As certified,	1760

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2027	Jem Milk Maker,	DuBois, Timulin, Kelly Co.	Per ct. 9.25	Per ct. 22.44	Per ct. 24.00
	THE LARROWE MILLING CO., DETROIT, MICH.	Average,	9.96	21.13	.....
1596	Larro-Feed,	Doylestown, H.S. Beidler.	8.73	20.25	20.00
1942	Larro-Feed,	New Castle, City Roller Mills.	10.13	19.94	20.00
1697	Larro-Feed,	Lock Haven, F. H. Dyer,	9.42	20.33	20.00
1322	Larro-Feed,	Vandergrift, Ekin Bros.,	9.03	20.69	20.00
1899	Larro-Feed,	Malvern, Thomas Haines Co.	10.30	19.38	20.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.55	Per ct. 6.00	Per ct. 9.13	Per ct. 11.00				
				1 85	Corn distillers' dried grains, brewers' dried grains, wheat bran, wheat middlings, corn gluten feed, cottonseed meal, linseed oil meal, corn meal, corn oil meal, malt sprouts and a small percentage of fine salt.	As certified,	2027
5.61	.....	8.93	.....	36 00			
4.21	3.00	12.29	14.00	35 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1596
4.01	3.00	11.89	14.00	34 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt.	As certified,	1942
4.14	3.00	12.13	14.00	1 70	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1697
4.26	3.00	11.92	14.00	1 70	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1322
3.79	3.00	11.98	14.00	36 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1899

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2069	Larro-Feed,	Mechanicsburg, A. B. Harnish.	Per ct. 9.59	Per ct. 23.44	Per ct. 19.00
2284	Larro-Feed,	Jeannette, Hart-Hunter Milling Co.	11.05	21.25	20.00
2001	Larro-Feed,	Monongahela, J. B. Hayward & Son.	9.32	20.00	20.00
1365	Larro-Feed,	Huntingdon, Huntingdon Milling Co.	9.53	21.69	19.00
2084	Larro-Feed,	Oxford, C. R. Kirk & Co.	9.02	20.69	20.00
2041	Larro-Feed,	Brookville, Kline's Sifter Mills.	9.61	20.81	20.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.91	Per ct. 3.00	Per ct. 12.35	Per ct. 14.00	33 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	2069
4.18	3.00	11.30	14.00	35 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt.	As certified,	2284
3.99	3.00	11.81	14.00	1 80	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt.	As certified,	2001
3.59	3.00	10.97	14.00	1 85	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1365
3.89	3.00	12.55	14.00	35 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	2084
3.54	3.00	12.06	14.00	34 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{1}{2}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	2041

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1514	Larro-Feed,	West Point, L. W. Mat- tern.	Per ct. 9.09	Per ct. 20.06	Per ct. 20.00
1583	Larro-Feed,	Hatfield, Estate of George S. Snyder.	8.97	19.94	20.00
1343	Larro-Feed,	Allentown, A. T. Stover Estate.	9.21	21.56	19.00
1974	Larro-Feed,	Tyrone, Tyrone Milling Co.	8.86	18.81	20.00
2335	Larro-Feed,	Honesdale, Wayne Milling Co.	9.02	20.06	20.00
		Average,	9.43	20.56	.....
	C. P. MATTHEWS & SONS, INC., SCRANTON, PA.				
1934	Best Mixed Feed for Cows,	Wilkes-Barre, C. P. Mat- thews & Sons, Inc.	10.43	19.15	15.00
2339	Best Mixed Feed for Cows,	Scranton, C. P. Matthews & Sons, Inc.	10.08	19.31	15.00
		Average,	10.25	19.23	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.19	Per ct. 3.00	Per ct. 12.43	Per ct. 14.00	34 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1514
4.10	3.00	13.36	14.00	33 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1583
4.25	3.00	11.87	14.00	34 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	1343
3.54	3.00	12.56	14.00	34 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt.	As certified,	1974
4.32	3.00	12.25	14.00	2 00	Cottonseed meal, corn gluten feed, dried distillers' grains (mainly from corn), dried beet pulp, standard wheat bran, standard wheat middlings and $\frac{3}{4}$ of 1% salt. Wheat bran and wheat middlings may contain ground screenings not exceeding mill run.	As certified,	2355
3.93	.....	12.10	.....	35 06			
4.61	5.00	6.54	8.00	1 70	Middlings, corn meal, linseed meal and gluten.	As certified,	1934
4.70	5.00	6.88	8.00	2 20	Middlings, corn meal, linseed meal and gluten.	As certified,	2329
4.66	.....	6.71	.....	1 95			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sample at	Moisture.	Protein.	
				Found.	Guaranteed.
1915	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mihimico Dairy Feed,	Wilkes-Barre, Miner Hillard Milling.	Per ct. 10.01	Per ct. 17.13	Per ct. 17.00
2207	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Justice Creamery Feed,	Mansfield, R. W. & M F. Rose Co.	7.16	22.69	22.00
2185	Domino Justice Creamery Feed,	Chambersburg, J. H Smith & Sons.	8.38	23.19	22.00
1847	OSWEGO MILLING CO., OSWEGO, N. Y. Stevens 44 Dairy Ration,	Average, Paoli, Edward F. Bracken.	7.77 10.43	22.94 23.38	..... 24.00
1815	Stevens 44 Dairy Rations,	Williamsport, F. W. Dawson & Son.	8.72	24.13	24.00
1546	J. E. PRITTS, SCOTSDALE, PA. Pritts' Alfalfa Cow Feed,	Average, Scottdale, J. E. Pritts, ..	9.57 16.35	23.76 18.76	..... 20-24

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.98	5.00	8.37	9.00	1.90	Hominy feed, corn oil meal, buckwheat middlings, wheat middlings, wheat bran, cottonseed meal, brewer's grains, old process oil meal and salt.	As certified,	1915
5.99	4.00	13.46	12.00	1.90	Cocoanut oil meal, cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings and salt $\frac{3}{4}$ of 1%.	As certified,	2207
5.77	4.00	11.60	12.00	1.80	Cocoanut oil meal, cottonseed meal, corn gluten feed, linseed oil meal, wheat middlings, corn distillers' dried grains, corn feed meal, clipped oat by-product, malt sprouts, brewers' dried grains, ground and bolted grain screenings and salt $\frac{3}{4}$ of 1%.	As certified,	2185
5.88	.....	12.53	.....	1.85			
6.30	5.00	13.55	14.00	1.90	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, winter wheat bran, gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, distillers' grains, ground barley, wheat middlings and salt.	As certified,	1847
6.52	5.00	13.89	14.00	1.75	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, winter wheat bran, gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings and salt.	Oil meal, hominy meal, cottonseed meal, buckwheat middlings, winter wheat bran, gluten feed, corn meal, brewers' grains, cocoanut oil meal, pea meal, corn germ meal, distillers' grains, ground barley, wheat middlings, salt and trace whole weed seeds.	1815
6.41	.....	13.72	.....	1.78			
3.88	5-8	7.27	9.00	1.75	Wheat bran, wheat middlings, corn, alfalfa meal and cottonseed meal.	As certified,	1546

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1987	THE QUAKER OATS CO., CHICAGO, ILL. Buckeye Feed,	Fredericktown, Keystone Mills Co.	Per ct. 9.80	Per ct. 15.63	Per ct. 15.50
2087	Buckeye Feed,	Oxford, H. M. Long, ..	10.33	17.06	15.50
1731	Buckeye Feeds,	Rockwood, Penrose Wolf,	10.91	15.69	15.50
		Average,	10.34	16.13	.....
1787	THE UBIKO MILLING CO., CINCINNATI, OHIO. Union Grains-Biles Ready Dairy Ration,	Sunbury, Blank & Gotshall.	8.56	25.38	24.00
2154	Union Grains-Biles Ready Dairy Rations	Knoxville, J. H. Burch, ..	7.37	25.56	24.00
2230	Union Grains-Biles Ready Dairy Ration,	Hollidaysburg, Fay Milling Co.	7.83	26.50	24.00
1352	Union Grains-Biles Ready Dairy Ration,	Bedford, H. H. Lysinger,	8.14	26.88	24.00
1784	Union Grains-Biles Ready Dairy Ration,	Mifflin, W. H. Manbeck & Co.	8.73	24.56	24.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.52	Per ct. 4.50	Per ct. 7.95	Per ct. 8.50	1 45	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	Wheat bran, wheat middlings, ground grain screenings and small amount small whole weed seeds.	1987
4.95	4.50	7.73	8.50	30 00	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	Wheat bran, wheat middlings, ground grain screenings, rye shorts and trace small whole weed seeds.	2087
5.42	4.50	7.94	8.50	1 45	Wheat mixed feed with ground screenings not exceeding mill run and rye shorts.	Wheat bran, wheat middlings, ground grain screenings, rye shorts and trace small whole weed seeds.	1731
5.30	.....	7.87	.....	29 33			
6.89	7.00	9.69	9.00	1 73	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified,	1787
7.52	7.00	10.33	9.00	1 80	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified,	2154
7.08	7.00	9.74	9.00	38 00	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified,	2230
7.20	7.00	9.73	9.00	1 75	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified,	1352
7.47	7.00	9.95	9.00	1 80	Fourex corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}\%$ of fine table salt.	As certified,	1784

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1345	Union Grains-Biles Ready Dairy Ration,	Allentown, George B. Shelly Estate,	Per ct. 7.91	Per ct. 25.75	Per ct. 24.00
1839	Union Grains-Biles Ready Dairy Ration,	Ridgway, Smith Brothers Co.	8.87	25.56	24.00
1688	Union Grains-Biles Ready Dairy Ration,	Kane, J. A. Stoll & Co.,	8.33	25.38	24.00
1968	Union Grains-Biles Ready Dairy Ration,	Midlinburg, Union Hardware Co.	8.91	24.06	24.00
		Average,	8.29	25.51	.....
2377	J. M. WYCKOFF, EAST STROUDSBURG, PA. Dairy Feed,	East Stroudsburg, J. M. Wyckoff,	10.35	17.56	15.00
	PROPRIETARY DAIRY FEEDS WITH MOLASSES.				
1540	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Dairy Feed,	Manor, H. Altman & Son,	14.67	18.26	16.50
1593	Sucrene Dairy Feed,	Doylestown, H. S. Beidler.	14.13	21.00	16.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.37	Per ct. 7.00	Per ct. 9.56	Per ct. 9.00	36 00	Fourx corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{3}{4}\%$ of fine table salt.	As certified,	1345
6.77	7.00	9.42	9.00	2 00	Fourx corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{3}{4}\%$ of fine table salt.	As certified,	1839
7.47	7.00	9.73	9.00	1 75	Fourx corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{3}{4}\%$ of fine table salt.	As certified,	1688
7.08	7.00	10.25	9.00	35 00	Fourx corn distillers' dried grains, choice cottonseed meal, old process linseed meal, white wheat middlings, winter wheat bran, hominy meal, brewers' dried grains, barley malt sprouts and $\frac{1}{2}$ per cent of fine table salt.	As certified,	1968
7.09	.....	9.82	.....	36 18			
4.33	3.00	8.46	9.00	1 90	Cottonseed meal, shelled and ear corn, dried yeast grains, old process oil meal, wheat bran and middlings and gluten.	As certified,	2377
5.49	3.50	11.64	12.00	27 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and salt.	As certified,	1540
6.11	3.50	11.52	12.00	27 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains, salt and small amount small whole weed seeds.	1593

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2199	Sucrene Dairy Feed,	Wellsboro, George C. & F. A. Brooks.	Per ct. 11.02	Per ct. 16.58	Per ct. 16.50
2313	Sucrene Dairy Feed,	Montrose, Brown & Fassett.	10.68	16.91	16.50
2155	Sucrene Dairy Feed,	Knoxville, Deerfield Milling Co.	13.17	18.40	16.50
1727	Sucrene Dairy Feed,	Somerset, John G. Emert,	12.71	17.25	16.50
1380	Sucrene Dairy Feed,	Bethlehem, C. J. Flück & Co.	14.74	17.49	16.50
1982	Sucrene Dairy Feed,	Bellwood, John Fuoss,...	7.86	19.19	16.50
1999	Sucrene Dairy Feed,	Monongahela City, D. E. Gamble.	7.41	20.91	16.50
1423	Sucrene Dairy Feed,	Lansdale, A. C. Godshall & Co.	11.59	18.44	16.50
2280	Sucrene Dairy Feed,	Jeannette, Keystone Supply Co.	12.04	18.67	16.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.81	3.50	13.33	12.00	1 60	Molasses, cottonseed, meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, distillers' dried grains, salt and trace small whole weed seeds.	2199
5.82	3.50	13.33	12.00	1 55	Molasses, cottonseed, meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified,	2313
5.51	3.50	12.84	12.00	29 00	Molasses, cottonseed, meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains, salt and trace small whole weed seeds.	2155
5.46	3.50	11.74	12.00	1 40	Molasses, cottonseed, meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified,	1727
4.96	3.50	13.50	12.00	28 00	Molasses, cottonseed, meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal, salt and small amount small whole weed seeds.	1330
5.23	3.50	14.43	12.00	1 60	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, Kafir corn distillers' dried grains, salt and small amount small whole weed seeds.	1982
5.75	3.50	13.19	12.00	28 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, Kafir corn distillers' dried grain, malt sprouts, salt and small amount small whole weed seeds.	1999
6.11	3.50	13.09	12.00	28 10	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal, salt and small amount small whole weed seeds.	1423
5.50	3.50	13.18	12.00	30 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified,	2280

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1339	Sucrene Dairy Feed,	New Kensington, A. H. Klugh.	Per ct. 15.58	Per ct. 18.55	Per ct. 16.50
2384	Sucrene Dairy Feed,	Stroudsburg, Frank LeBar.	11.20	16.96	16.50
2122	Sucrene Dairy Feed,	Honey Brook, J. K. Lewis.	8.43	21.32	16.50
1704	Sucrene Dairy Feed,	Howard, W. H. Long.	12.06	19.44	16.50
2090	Sucrene Dairy Feed,	Chadds Ford Junction, Harry Pyle & Sons.	8.68	19.19	16.50
1347	Sucrene Dairy Feed,	Allentown, George B. Shelly Estate.	12.33	17.23	16.50
1977	Sucrene Dairy Feed,	Tyrone, Tyrone Milling Co.	8.79	18.25	16.50
		Average,	11.50	18.56	.....
2341	Tip Top Sugared Feed,	Carbondale, C. Ditchburn's Sons.	9.34	17.12	12.00
1387	ARCADY FARMS MILLING CO., RONDOUT, ILL. Arcady Dairy Feed,	Quakertown, H. H. Bean.	12.93	18.34	16.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.86	3.50	12.84	12.00	1 45	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal, salt and small amount small whole weed seeds.	1339
5.39	3.50	13.20	12.00	1 70	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified,	2384
6.52	3.50	13.11	12.00	23 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains, salt and trace small whole weed seeds.	2122
5.40	3.50	12.94	12.00	1 40	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	As certified,	1704
5.04	3.50	13.15	12.00	30 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn distillers' dried grains and salt.	As certified,	2090
5.18	3.50	12.17	12.00	28 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal, salt and small amount small whole weed seeds.	1347
6.44	3.50	14.02	12.00	27 00	Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, linseed meal and salt.	As certified,	1977
5.48	.....	12.95	.....	29 12			
5.63	2.50	14.26	12.00	1 50	Molasses, ground and bolted grain screenings, clipped oat by-product, cottonseed meal and salt.	Molasses, ground and bolted grain screenings, clipped oat by-product, cottonseed meal, salt and small amount small whole weed seeds.	2341
4.27	3.50	11.71	15.00	26 50	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings and salt.	As certified,	1387

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1589	Arcady Dairy Feed,	Doylestown, H. S. Beidler.	14.35	15.25	16.00
2118	Arcady Dairy Feed,	Erie, C. J. Farley & Son,	11.30	18.19	16.00
		Average,	12.86	17.26	.....
1864	J. J. BADENOCH & CO., CHICAGO, ILL. Honey Bee Dairy Feed,	Farrell, J. B. Roux, ..	14.18	14.49	16.00
1488	M. F. BARINGER, PHILADELPHIA, PA. Big B. Dairy Feed,	Quakertown, A. K. Smith.	12.13	18.93	16.50
1499	THE BIG FOUR MILLING CO., CLEVELAND. Co-Boss Dairy Feed,	Harmony, S. D. Kirker, ..	12.35	17.68	17.00
1506	Co-Boss Dairy Feed,	Butler, B. F. Shannon & Co.	11.64	16.79	17.00
		Average,	11.99	17.24	.....
1793	BLANK & GOTTSHALL, SUNBURY, PA. Blank & Gottshall's Dairy Feed,	Sunbury, Blank & Gottshall.	9.30	20.06	19.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
4.46	3.50	12.81	15.00	27 00	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt and corn gluten.	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt, corn gluten feed and small amount small whole weed seeds.	1589
4.39	3.50	11.36	15.00	1 45	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt and corn gluten.	Malt sprouts, dried brewers' grains, cottonseed meal, molasses, ground and bolted clipped oat by-product, cleaned ground and bolted grain screenings, salt, corn gluten feed and small amount small whole weed seeds.	2118
4.37	.....	11.96	.....	27 50			
3.71	3.00	12.73	15.00	26 00	Cottonseed meal, gluten meal, dried malt grains, oat clipp by-product, molasses, malt sprouts, ground screenings from wheat, corn, oats, barley, flax and salt.	As certified,	1864
3.58	3.50	9.90	12.00	26 00	Molasses, corn gluten feed, cottonseed meal, clipped oat by-products, ground grain screenings and small percentage of salt.	As certified,	1488
2.52	3.50	15.19	13.00	1 40	Malt sprouts, brewers' grains, gluten meal, corn or hominy meal, alfalfa meal, oil meal, cottonseed meal, oat clipp, grain screenings, $\frac{1}{2}\%$ salt and cane molasses.	Malt sprouts, brewers' dried grains, gluten meal, hominy meal, corn distillers' dried grains, alfalfa meal, linseed oil meal, cottonseed meal, clipped oat by-product, ground grain screenings, cane molasses and salt.	1499
1.88	3.50	15.18	13.00	1 45	Malt sprouts, brewers' grains, gluten meal, corn or hominy meal, alfalfa meal, oil meal, cottonseed meal, oat clipp, grain screenings, $\frac{1}{2}\%$ salt and cane molasses.	Malt sprouts, brewers' dried grains, gluten meal, hominy meal, corn distillers' dried grains, alfalfa meal, linseed oil meal, cottonseed meal, clipped oat by-product, ground grain screenings, cane molasses and salt.	1506
2.20	.....	15.18	.....	1 43			
4.66	5.00	11.16	11.00	1 50	Beet pulp, corn bran, gluten feed, wheat bran, buckwheat midds, dried brewers' grains, cottonseed meal, alfalfa, molasses and oats chop.	As certified,	1793

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Fond.	Guaranteed.
1475	CHAPIN & CO., HAMMOND, IND. Lactola Dairy Feed,	Pittsburgh, The I. W Scott Co.	Per ct. 8.02	Per ct. 18.69	Per ct. 16.50
1869	CLOVER LEAF MILLING CO., BUF- FALO, N. Y. Clover Leaf Dairy Feed,	Mapleton, H. O. An- drews.	13.08	18.30	16.50
2008	Clover Leaf Dairy Feed,	Wellsboro, Equity Co-Op- erative Exchange.	9.88	16.97	16.50
1873	Clover Leaf Dairy Feed,	Coatesville, Handwork Brothers.	12.59	17.13	16.50
1297	Clover Leaf Dairy Feed,	Johnstown, J. H. Hersh- berger & Son.	11.22	17.69	16.50
2012	Clover Leaf Dairy Feed,	Flerin, J. N. Hershey, ..	11.36	19.00	16.50
1817	Clover Leaf Dairy Feed,	Montoursville, Herman Keebler.	11.88	16.76	16.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.51	3.40	9.89	12.00	30 00	Choice cottonseed meal, corn distillers' grains, clipped oat by-product, corn gluten feed, corn germ meal, brewers' grains, palm nut meal, cane molasses and salt.	As certified,	1475
2.19	3.50	13.29	15.00	1 40	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	As certified,	1389
3.99	3.50	11.56	12.00	28 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	2008
2.13	3.50	10.38	15.00	1.40	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% fine salt.	As certified,	1873
5.26	3.50	10.57	12.00	27 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	1297
3.78	3.50	14.64	12.00	26 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	As certified,	2012
3.27	3.50	19.41	15.00	1 45	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	As certified,	1817

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2001	Clover Leaf Dairy Feed,	Annville, Newgard & Tice.	Per ct. 10.26	Per ct. 18.88	Per ct. 16.50
1349	Clover Leaf Dairy Feed,	Emaus, Fred G. Newhard,	13.19	19.30	16.50
1781	Clover Leaf Dairy Feed,	McVeytown, John T. Rodgers.	11.16	18.81	16.50
2017	Clover Leaf Dairy Feed,	Leola, H. M. Stauffer,...	10.17	17.56	16.50
2011	Clover Leaf Dairy Feed,	Lawn, B. S. Stauffer, & Co.	11.44	19.87	16.50
2022	Clover Leaf Dairy Feed,	Witmer, J. B. Weaver & Son.	11.83	18.34	16.50
1699	Clover Leaf Dairy Feed,	Lock Haven, E. E. Wentz.	13.12	15.34	16.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.12	Per ct. 2.50	Per ct. 14.54	Per ct. 15.00				
				26 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2009
3.35	3.50	9.56	12.00	1 40	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, clipped oat by-product, molasses and a small percentage of salt.	As certified,	1349
2.44	3.50	13.00	15.00	1 50	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and a small percentage of salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt, ground grain screenings, clipped oat by-product, molasses, salt and traces small whole weed seeds.	1781
2.30	3.50	13.33	15.00	28 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2017
2.79	3.50	13.72	15.00	25 95	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2011
3.99	3.50	13.69	15.00	26 50	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2022
3.09	3.50	16.67	15.00	1 40	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, c o c o a shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1699

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2010	Clover Leaf Dairy Feed,	Prescott, Ephraim Zug, ..	Per ct. 10.68	Per ct. 14.21	Per ct. 16.50
2305	Clover Leaf Dairy Feed,	Montrose, Andre & Sweet,	12.94	14.31	13.50
2267	Clover Leaf Dairy Feed,	Skinnners Eddy, Cline Milling Co.	9.50	17.38	13.50
2014	Clover Leaf Dairy Feed,	Lancaster, John W. Esh- elman.	13.43	15.33	13.50
2097	Clover Leaf Dairy Feed,	West Chester, C. C. Hipple & Son.	11.61	17.13	13.50
2007	Clover Leaf Dairy Feed,	Bloomsburg, R. R. Ikeler,	11.13	14.15	13.50
2081	Clover Leaf Dairy Feed,	Toughkenamon, H. A. Mendenhall.	12.77	14.59	13.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.04	Per ct. 3.50	Per ct. 21.26	Per ct. 15.00				
				27 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and a small percentage of salt.	As certified,	2010
2.81	4.00	15.99	15.00	30 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, mixed broken grains of wheat corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and trace small whole weed seeds.	2305
2.21	4.00	11.94	15.00	1 55	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, barley, flax, spelt taken from grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat corn, barley, flax, spelt from grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and trace small whole weed seeds.	2267
3.92	4.00	12.63	15.00	27 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2014
4.23	4.00	14.17	15.00	30 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2097
2.49	4.00	11.20	15.00	30 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt taken from grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt from grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	2007
3.70	4.00	13.36	15.00	28 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt from grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	2081

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2026	Clover Leaf Dairy Feed,	Roherstown, Miller & Bushong.	Per ct. 13.08	Per ct. 17.27	Per ct. 13.50
2187	Clover Leaf Dairy Feed,	Shippensburg, Wm. A. Nickles.	13.38	16.58	13.50
2013	Clover Leaf Dairy Feed,	Dillsburg, J. B. Spera,	13.17	16.6%	13.50
2020	Clover Leaf Dairy Feed,	Bird-in-Hand, J. A. Umble & Bro.	13.53	14.93	13.50
2213	Clover Leaf Dairy Feed,	Barnesboro, Veith Brothers.	12.33	18.92	13.50
2024	Clover Leaf Dairy Feed,	Christiana, B. F. Walter,	12.99	17.17	13.50
	THE CORNO MILLS CO., ST. LOUIS, MO.	Average,	11.98	17.02	.....
1814	Nutro Sweet Cow Feed,	Williamsport, F. W. Dawson & Son.	11.65	15.93	15.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.49	Per ct. 4.00	Per ct. 10.87	Per ct. 15.00	27 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2026
4.63	4.00	12.32	15.00	28 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat product, molasses, salt and small amount small whole weed seeds.	2187
4.14	4.00	12.26	15.00	29 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat product, molasses, salt and small amount small whole weed seeds.	2013
3.52	4.00	12.31	15.00	25 50	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2020
2.72	4.00	11.81	15.00	1 65	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt taken from grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, corn gluten feed, mixed broken grains of wheat, corn, barley, flax, spelt from grain screenings, cocoa shell meal, clipped oat by-product, molasses, salt and trace small whole weed seeds.	2213
3.91	4.00	10.03	15.00	26 00	Cottonseed meal, corn gluten feed, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings, cocoa shell meal, clipped oat by-product, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2024
3.41	.....	13.25	.....	28 08			
3.16	3.50	15.36	17.50	1 60	Ground alfalfa, cottonseed meal, molasses, ground grain screenings, oat middlings, oat hulls and oat shorts.	As certified,	1814

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
			Per ct.	Per ct.	Per ct.
1400	DIXIE MILLS CO., E. ST. LOUIS, ILL. Dixie Dairy Feed,	Beaver Falls, Dodds & Garrett.	12.68	15.30	17.00
1684	Dixie Dairy Feed,	Kane, Swanson Grocery Co.	13.39	13.80	17.00
1512	Dixie Dairy Feed,	Butler, George Walter & Sons.	13.83	16.01	17.00
		Average,	13.40	15.04	.....
2121	JOHN W. ESHELMAN, LANCASTER, PA. Home Made Dairy Feed,	Lancaster, John W. Eshelman.	8.64	21.19	20-22
1560	GLOBE ELEVATOR CO., BUFFALO, N. Y. Anchor Dairy Feed,	Phillipsburg Centre Milling Co.	14.75	13.52	16-18
1436	Anchor Dairy Feed,	Colmar, W. H. D. Godshall.	12.79	14.95	16-18
		Average,	13.77	14.24	.....
1466	F. W. GOEKE CO., ST. LOUIS, MO. Holstein Molasses Feed,	Erie, Nickel Plate Flour Mills.	10.00	17.71	15-17

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.71	Per ct. 3.50	Per ct. 13.70	Per ct. 12.00	1 50	Ground alfalfa, cottonseed meal, corn meal, sugar cane molasses and ground flaxseed screenings.	As certified,	1400
3.27	3.50	15.90	12.00	1 50	Ground alfalfa, cottonseed meal, corn meal, sugar cane molasses and ground flaxseed screenings.	As certified,	1584
5.60	3.50	12.72	12.00	32.00	Ground alfalfa, cottonseed meal, corn meal, sugar cane molasses and ground flaxseed screenings.	As certified,	1512
4.83	.....	14.44	.....	30 67			
6.00	5-6	12.87	9-11	35 00	Gluten feed, linseed meal, broken grains of cereal plant separated from wheat, oats and barley, distillers' grains, cottonseed meal, salt, wheat bran and molasses.	As certified,	2126
4.06	3.5-5.0	8.73	9.00	1 70	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, dried brewers' grains, corn meal, corn bran, ground grain screenings, clipped oat by-products, wheat middlings, molasses and salt $\frac{1}{2}$ of 1%.	Cottonseed meal, corn gluten feed, malt sprouts, dried brewers' grains, corn meal, corn bran, ground grain screenings, clipped oat by-product, wheat middlings, molasses, salt and small amount small whole weed seeds.	1560
3.36	3.5-5.5	8.36	9.00	1 45	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, dried brewers' grains, corn meal, corn bran, ground grain screenings, clipped oat by-products, wheat middlings, molasses and salt $\frac{1}{2}$ of 1%.	Cottonseed meal, corn gluten feed, linseed oil meal, malt sprouts, dried brewers' grains, corn meal, corn bran, ground grain screenings, clipped oat by-product, wheat middlings, molasses, salt and small amount small whole weed seeds.	1435
3.71	.....	8.57	.....	1 58			
3.10	3-4	12.16	15-10	1 00	Cottonseed meal, alfalfa, ground grain screenings, malt sprouts, shipstuff, cane molasses and salt.	Cottonseed meal, corn distillers' grains, alfalfa, malt sprouts, wheat middlings, grain screenings with chaff and whole weed seeds, molasses and salt. Sample charred and damaged.	1466

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1868	THE GOLDSBORO PURE FEED CO., GOLDSBORO, PA. Gold-O-Cane Molasses Dairy Feed,	Coatesville, Handwork Brothers.	Per ct 9.46	Per ct. 19.50	Per ct. 20.00
1498	DWIGHT E. HAMLIN, PITTS- BURGH, PA. H. & S. Alfalfa Feed for Milch Cows.	Harmony, Harmony Ce- real Mill.	12.82	16.91	20-25
1418	H. & S. Alfalfa Feed for Milch Cows,	West Bridgewater, W. W. McCullough.	15.25	16.02	20-25
		Average,	14.03	16.47	.....
1835	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Cattle Feed,	St. Marys, Jacob & Keller Co.	11.79	24.56	25.00
1829	International Cattle Feed,	Franklin, J. H. Lavery,	11.68	24.88	25.00
1720	International Cattle Feed,	Somerset, Saylor & Woy.	10.83	23.81	25.00
		Average,	11.43	24.42	.....
2307	International Climax Dairy Feed,	Montrose, Harrington & Wilson.	10.43	13.00	12.50
2115	International Special Dairy Feed,	Erie, Erie Milling & Sup- ply Co.	10.30	15.94	15.00
2149	International Special Dairy Feed,	Troy, Farmer' & Consum- ers' Commercial Union.	13.05	15.44	15.00
1834	International Special Dairy Feed,	St. Marys, Jacob & Keller Co.	12.20	15.31	15.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.69	Per ct. 6.00	Per ct. 12.41	Per ct. 12.00	32 00	Brewers' grains, yeast grains, ground grain screenings meal, wheat middlings, oil meal, wheat bran, corn bran, corn flakes, hominy meal, oat clippings, cottonseed meal, gluten, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1868
4.40	3.50	12.45	16.00	1 80	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	As certified,	1493
3.62	3.50	11.09	16.00	1 65	Alfalfa, cottonseed meal, pure cane molasses, brewers' and distillers' dried grains and $\frac{1}{2}$ of 1% salt.	As certified,	1418
4.01	.....	11.77	.....	1 73			
6.53	5.00	9.36	10.00	1 95	Cottonseed meal, old process linseed oil meal, molasses, grain middlings and salt.	Cottonseed meal, linseed oil meal, ground grain screenings, molasses and salt.	1835
6.26	5.00	10.63	10.00	1.90	Cottonseed meal, old process linseed meal, molasses, grain screenings and salt.	Cottonseed meal, linseed oil meal, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1829
6.53	5.00	11.30	10.00	1 75	Cottonseed meal, old process linseed oil meal, molasses, grain middlings and salt.	Cottonseed meal, linseed oil meal, ground grain screenings, molasses, and salt.	1720
6.47	.....	10.44	.....	1 87			
6.37	4.00	14.76	12.00	1 50	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, ground grain screenings, salt and small amount small whole weed seeds.	2307
6.04	4.50	12.93	12.00	27 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	2115
6.00	4.50	13.13	12.00	27 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	2149
5.23	4.50	13.67	12.00	1 65	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	1824

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1352	International Special Dairy Feed,	Uniontown, King Brothers.	Per ct. 9.84	Per ct. 15.88	Per ct. 15.00
1350	International Special Dairy Feed,	Emans, Fred G. Newhard,	13.15	16.09	15.00
2144	International Special Dairy Feed,	Canton, H. Rockwell & Son.	12.26	16.51	15.00
1721	International Special Dairy Feed,	Somerset, Saylor & Woy,	11.73	15.44	15.00
1422	International Special Dairy Feed,	Lansdale, A. S. Tyson & Son.	11.03	15.06	15.00
2407	International Special Dairy Feed,	Easton, F. C. Williams.	14.87	14.58	15.00
		Average.	12.04	15.58	.....
791	CHARLES A. KRAUSE MILG. CO., MILWAUKEE, WIS. Badger Dairy Feed,	Sunbury, Blank & Gottshall.	15.16	13.81	16.00
1387	Badger Dairy Feed,	Huntingdon, City Flour & Feed Mill.	12.06	17.44	16.00
1382	Badger Dairy Feed,	Quakertown, S. S. Detweiler.	9.61	19.25	16.00
2119	Badger Dairy Feed,	Erie, C. J. Farley & Son,	10.43	16.50	16.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.23	4.50	13.81	12.00	1 70	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	As certified,	1462
5.58	4.50	12.61	12.00	1 40	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	1350
5.12	4.50	13.02	12.00	1.50	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	2144
6.05	4.50	13.48	12.00	1.50	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	1721
4.83	4.50	12.77	12.00	27 00	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	1422
5.29	4.50	12.39	12.00	1 60	Cottonseed meal, molasses, ground clipped oat by-product, salt and ground cleaned grain screenings.	Cottonseed meal, molasses, ground clipped oat by-product, salt, ground grain screenings and small amount small whole weed seeds.	2407
5.49	.....	13.09	.....	29 78			
3.08	3.00	14.98	15 00	1 50	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	As certified,	1791
4.81	3.00	16.94	15.00	1 40	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	As certified,	1367
5.46	2.00	13.54	15.00	27 00	Cottonseed meal, malt sprouts ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, ground wheat, oats and flax screenings, molasses, salt and small amount small whole weed seeds.	1332
3.74	3.00	14.11	15.00	1 45	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{4}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, alfalfa meal, ground wheat, oats and flax screenings, molasses, salt and small amount small whole	2119

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2092	Badger Dairy Feed,	West Chester, C. C. Hipple & Son.	Per ct. 10.50	Per ct. 17.30	Per ct. 16.00
2065	Badger Dairy Feed,	Newville, S. E. Shenk & Sons.	9.68	17.25	16.00
1584	Badger Dairy Feed,	Hatfield, Estate of George S. Snyder.	12.86	17.55	16.00
2055	Badger Dairy Feed,	Carlisle, W. S. Stuart.	9.58	17.19	16.00
1978	Badger Dairy Feed,	Tyrone, Tyrone Milling Co.	7.99	16.38	16.00
		Average,	10.87	16.96	.....
2274	Blue Top Dairy Feed,	Tunkhannock, Brown & Fassett.	13.25	15.45	13.00
2088	Blue Top Dairy Feed,	Oxford, H. P. Passmore & Bro.	9.90	15.44	13.00
2378	Blue Top Dairy Feed,	East Stroudsburg, J. M. Wyckoff.	11.53	12.72	13.00
		Average,	11.56	14.54	.....
1286	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO, Lake Shore Dairy Feed,	Windber, L. B. Reeser & Co.	12.93	18.88	17.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.46	3.00	15.68	15.00	30 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	As certified,	2092
3.34	3.00	15.51	15.00	29 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	As certified,	2065
5.95	3.00	13.59	15.00	28 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, alfalfa meal, ground wheat, oats and flax screenings, molasses, salt and small amount small whole weed seeds.	1534
3.34	3.00	11.25	15.00	28 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, alfalfa meal, ground wheat, oats and flax screenings, molasses, salt and trace small whole weed seeds.	2055
5.07	3.00	16.31	15.00	27 00	Cottonseed meal, malt sprouts, alfalfa meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	Cottonseed meal malt sprouts, alfalfa meal, ground wheat, oats and flax screenings, molasses, salt and small amount small whole weed seeds.	1978
4.25	.....	14.65	.....	28 44			
4.08	2.00	13.52	15.00	1 40	Cottonseed meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	Cottonseed meal, ground wheat, oats and flax screenings, molasses, salt and small amount small whole weed seeds.	2274
3.82	2.00	16.43	15.00	30 00	Cottonseed meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	Cottonseed meal, malt sprouts, ground wheat, oats and flax screenings, molasses, salt and trace small whole weed seeds.	2088
3.61	2.00	14.39	15.00	1 65	Cottonseed meal, ground and bolted screenings from wheat, oats and flax, $\frac{1}{2}$ of 1% salt and molasses.	As certified,	2378
3.84	.....	14.78	.....	30 33			
4.48	3.00	9.00	11.00	1.50	Cottonseed meal, distillers' grains, malt sprouts, corn, corn bran screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cottonseed meal, distillers' dried grains, brewers' dried grains, corn gluten feed, corn, corn bran screenings, linseed oil meal, molasses, salt and small amount buckwheat.	1286

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2063	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, Pa. Holly-O Pure Cane Molasses Dairy Feed No. 1.	Mt. Holly Springs, Mt. Holly Feed & Grain Co.	Per ct. 8.15	Per ct. 21.56	Per ct. 25.00
2058	Holly-O Pure Cane Molasses Dairy Feed No. 2.	Mt. Holly Springs, Mt. Holly Feed & Grain Co.	7.74	20.44	20.00
1884	THE NEW OXFORD PURE FEED CO., NEW OXFORD, PA. Ox-O Pure Cane Molasses Concentrated Dairy Feed.	New Oxford, The New Oxford Pure Feed Co.	10.48	26.44	30.00
2130	Ox-O Pure Cane Molasses Concentrated Dairy Feed.	Chambersburg, George Walker.	9.06	28.69	30.00
		Average,	9.27	27.57	.....
1893	Ox-O Pure Cane Molasses Dairy Feed No. 1.	Gettysburg, J. W. McIlhenny.	9.41	25.25	25.00
1883	Ox-O Pure Cane Molasses Dairy Feed No. 2.	New Oxford, The New Oxford Pure Feed Co.	9.27	18.31	20.00
2177	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Domino Butterine Dairy Feed,	Williamson, S. F. Peckman.	9.29	18.85	17.00
1778	Domino Butterine Dairy Feed,	Yeagertown, J. M. Yeager.	11.06	18.56	17.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.37	Per ct. 5.50	Per ct. 13.94	Per ct. 10.00	34 00	Cottonseed meal, gluten meal, linseed meal, wheat bran, wheat middlings, ground corn, brewers' grains, malt sprouts, malt grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2063
5.92	4.50	14.16	13.50	30 00	Brewers' grains, malt sprouts, malt grains, corn meal, wheat middlings, wheat bran, cottonseed meal, gluten meal, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2058
6.34	6.00	10.05	9.00	35 00	Cottonseed meal, gluten meal, brewers' grains, malt sprouts, yeast dried grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1834
6.29	6.00	10.93	9.00	1 85	Cottonseed meal, gluten meal, brewers' grains, malt sprouts, yeast dried grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2180
6.32	.....	10.49	.....	36 00			
6.08	5.50	11.21	10.00	1 65	Cottonseed meal, gluten meal, linseed meal, wheat bran, wheat middlings, ground corn, brewers' grains, malt sprouts, malt grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1893
5.71	4.50	14.13	13.50	29 00	Brewers' grains, malt sprouts, yeast dried grains, wheat middlings, wheat bran, cottonseed meal, gluten meal, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1883
5.00	4.00	11.99	12.00	30 00	Cottonseed meal, malt sprouts, dried brewers' grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2177
4.56	4.00	12.00	12.00	28 00	Cottonseed meal, malt sprouts, dried brewers' grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1778

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2184	Domino Butterine Dairy Feed,	Chambersburg, J. H. Smith & Sons.	Per ct. 13.61	Per ct. 17.97	Per ct. 17.00
		Average,	11.32	18.46	.....
2176	Union Dairy Feed,	Williamson, S. F, Petkman.	7.94	12.69	12.00
2099	OATFALFA MILLING CO., PHILADELPHIA, PA. Koch's Sterling Dairy Feed,	West Chester, I. H. Bailey.	11.94	14.88	13.53
1611	OMAHA ALFALFA MILLING CO., OMAHA, NEBR. No. 1 Cream Alfalfa Dairy Feed,	Philadelphia, William Kolb.	14.67	20.55	20.00
1302	THE QUAKER OATS CO., CHICAGO, ILL. Blue Ribbon Dairy Feed,	Pitcairn, D F. Salyards, .	11.16	22.13	25.00
1843	Quaker Dairy Feed with Molasses, ..	Paoli, E. F. Bracken,	13.95	15.38	16.00
2215	Quaker Dairy Feed with Molasses,	Spangler, E. F. Dumm, .	10.82	14.77	16.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.16	Per ct. 3.50	Per ct. 11.50	Per ct. 12.00	1 55	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses and $\frac{1}{2}$ of 1% salt.	Cocoanut oil meal, cottonseed meal, malt sprouts, brewers' dried grains, clipped oat by-product, ground and bolted grain screenings, molasses, salt and small amount small whole weed seeds.	2184
4.24	.....	11.83	.....	29 67			
5.81	6.00	15.70	15.00	25 00	Ground wheat screenings, wheat bran, linseed oil meal, clipped oat by-product, molasses and salt $\frac{1}{2}$ of 1%.	Ground wheat screenings, wheat bran, linseed oil meal, malt sprouts, Kaffir corn, clipped oat by-product, molasses, salt and small amount small whole weed seeds.	2176
4.05	4.00	13.13	15.00	29 00	Molasses, corn gluten feed, clipped oat by-product, cocoa shell meal, mixed broken grains consisting of wheat, corn, barley, flax, spelt, ground grain screenings and $\frac{1}{2}$ of 1% salt.	Molasses, corn gluten feed, clipped oat by-product, cocoa shell meal, mixed broken grains of wheat, corn, barley, flax, spelt, ground grain screenings, salt and small amount small whole weed seeds.	2099
3.19	3.00	12.49	18.00	33 00	Cottonseed meal, bran, corn, alfalfa meal and molasses.	As certified,	1611
3.97	3.50	12.21	12.00	1 80	Cottonseed meal, wheat bran with ground screenings not exceeding mill run malt sprouts, molasses, hominy feed, linseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts.)	As certified,	1302
4.57	4.00	14.68	14.50	1 50	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1843
4.30	4.00	17.37	14.50	2 00	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2215

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2037	Quaker Dairy Feed with Molasses,	Brookville, Kline's Sifter Mills.	10.40	17.60	16.00
1524	Quaker Dairy Feed with Molasses,	Souderton, Moyer & Son.	10.75	15.48	16.00
1837	Quaker Dairy Feed with Molasses,	St. Mary's, Leonard Ritter.	11.86	16.13	16.00
		Average,	11.55	15.75	.....
	RALSTON PURINA CO., ST. LOUIS, MO.				
2236	Protana Dairy Feed,	Athens, Athens Milling & Produce Co.	13.37	15.91	16.50
2367	Purina Cow Chow Feed,	Midway, D. G. Bamford Milling Co.	10.96	24.07	24.00
2182	Purina Cow Chow Feed,	Chambersburg, J. H. Smith & Sons.	8.88	26.69	24.00
		Average,	9.92	25.38	.....
2268	Purina Dairy Feed,	Midway, D. G. Bamford Milling Co.	10.58	22.33	20.00
1336	Purina Dairy Feed,	Kittanning, William Gates Estate.	13.63	21.09	20.00
1645	Purina Dairy Feed,	Smethport, Herzog Milling Co.	13.39	21.52	20.00
2351	Purina Dairy Feed,	Honesdale, Honesdale Milling Co.	11.52	21.83	20.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
5.45	4.00	11.91	14.50	29 00	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2037
4.71	4.00	14.99	14.50	30 00	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and salt.	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process, linseed oil meal, oat middlings, oat hulls, oat shorts and small amount whole weed seeds and salt.	152a
4.94	4.00	12.92	14.50	1 65	Molasses, malt sprouts, cottonseed meal, ground grain screenings, new process linseed oil meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Molasses, malt sprouts cottonseed meal, ground grain screenings, new process linseed oil meal, oat middlings, oat hulls, oat shorts salt and large amount small whole weed seeds.	1837
4.79	.....	14.37	.....	32 40			
3.31	3.50	12.23	12.00	1 50	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, molasses and 1% salt.	Cottonseed meal, brewers' dried grains, clipped oat by-product, ground wheat screenings, molasses, salt and small amount whole weed seeds.	2236
3.65	5.00	14.29	12.00	40 00	Cottonseed meal, gluten feed from corn, brewers' dried grains, molasses, ground alfalfa and 1% salt.	As certified,	2367
4.14	5.00	13.87	12.00	1 80	Cottonseed meal, gluten feed from corn, brewers' dried grains, molasses, ground alfalfa and 1% salt.	As certified,	2182
3.90	.....	14.08	.....	38 00			
3.61	3.80	11.67	15.00	28 00	Cottonseed meal, brewers' dried grains, gluten feed, ground alfalfa, molasses and 1% salt.	As certified,	2368
2.71	3.80	16.20	15.00	1 55	Cottonseed meal, brewers' dried grains, gluten feed, ground alfalfa, molasses and 1% salt.	As certified,	1336
3.15	3.80	17.79	15.00	1 65	Cottonseed meal, brewers' dried grains, gluten feed, ground alfalfa, molasses and 1% salt.	Cottonseed meal, brewers' dried grains, corn gluten feed, ground alfalfa, molasses, salt and meal mites.	1645
3.96	3.80	16.27	15.00	1 85	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified,	2351

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1913	Purina Dairy Feed,	Rosemont, Lippincott & Eadie.	Per ct. 13.17	Per ct. 22.34	Per ct. 29.00
2153	Purina Dairy Feed,	Chambersburg, J. H. Smith & Sons.	13.73	21.24	20.00
1481	Purina Dairy Feed,	Perkasie, Edwin F. Stover.	11.21	24.21	20.00
1296	Purina Dairy Feed,	Johnstown, A. F. Stutzman & Co.	13.17	20.15	20.00
1967	Purina Dairy Feed,	Mifflinburg, Union Hardware Co.	11.78	20.93	20.00
		Average,	12.46	21.74	.....
1419	REPUBLIC MILLING CO., EAST ST. LOUIS, ILL. Republic Dairy Feed,	Freedom, Excelsior Flour & Feed Co.	12.05	16.64	16.50
1595	WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Hammond Dairy Feed,	Doylestown, H. S. Beidler.	13.73	15.03	16.50
1277	Hammond Dairy Feed,	Johnstown, G. Bostert & Son.	10.94	15.56	16.50
2121	Hammond Dairy Feed	Lewistown, H. C. Clarkson.	10.41	17.01	16.50
1949	Hammond Dairy Feed,	New Castle, Fisher & Mengle.	14.00	17.05	16.50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.83	Per ct. 3.80	Per ct. 13.91	Per ct. 15.00	1 85	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified,	1913
3.19	3.80	14.92	15.00	1 70	Cottonseed meal, brewers' dried grains, gluten feed from corn, ground alfalfa, molasses and 1% salt.	As certified,	2183
3.39	3.80	15.29	15.00	1 65	Cottonseed meal, brewers' dried grains, gluten feed, ground alfalfa, molasses and 1% salt.	As certified,	1481
3.33	3.80	17.03	15.00	1 65	Cottonseed meal, brewers' dried grains, corn feed, meal, ground alfalfa, molasses and 1% salt.	As certified,	1296
2.97	3.80	17.48	15.00	1 65	Cottonseed meal, brewers' dried grains, gluten feed ground alfalfa, molasses and 1% salt.	As certified,	1967
3.35	.....	15.61	.....	34 33			
2.94	3.00	14.46	12.00	1 35	Cottonseed meal, malt sprouts, alfalfa, ground screenings (from corn, oats, wheat, barley) cane molasses and salt.	Cottonseed meal, malt sprouts, alfalfa, ground screenings from corn, oats, wheat and barley, cane molasses salt and small amount small whole weed seeds and timothy grass seed.	1419
4.24	3.50	11.32	11.00	27 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1595
4.29	3.50	12.64	11.00	29 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1277
4.23	3.50	13.23	12.00	30 00	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2121
3.51	3.50	10.99	12.00	1 45	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1949

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2068	Hammond Dairy Feed,	Mechanicsburg, A. B. Harnish.	Per ct. 10.00	Per ct. 18.81	Per ct. 16.50
1439	Hammond Dairy Feed,	Chalfonte, F. D. Hartzel's Sons.	14.10	15.95	16.50
1445	Hammond Dairy Feed,	West Point, Heebner & Kriebel.	8.42	17.31	16.50
1495	Hammond Dairy Feed,	Evans City, George Ifft & Son.	11.04	17.00	16.50
2294	Hammond Dairy Feed,	Hays, John Lachman & Co.	13.89	15.45	16.50
2104	Hammond Dairy Feed,	Linesville, Linesville Milling Co.	10.69	18.94	16.50
2086	Hammond Dairy Feed,	Oxford, H. M. Long,	10.14	17.50	16.50
2025	Hammond Dairy Feed,	Rohrerstown, Miller & Bushong.	12.86	17.17	16.50
1482	Hammond Dairy Feed,	Perkasie, Edwin F. Stover.	12.70	15.88	16.50
		Average,	11.76	16.82	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.27	Per ct. 3.50	Per ct. 12.12	Per ct. 12.00	27 50	Cottonseed meal corn distillers' grains, malt sprouts ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2068
4.67	3.50	11.36	11.00	28 00	Cottonseed meal corn distillers' grains, malt sprouts ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1439
4.08	3.50	11.57	11.00	1 30	Cottonseed meal distillers' grains, malt sprouts, ground and bolted mixed broken grains separated from wheat rye, oats and barley and wheat screenings, molasses and salt.	Cottonseed meal, distillers' grains, malt sprouts, ground and bolted mixed broken grains from wheat, rye, oats and barley and wheat screenings, molasses, salt and small amount small whole weed seeds.	1446
3.81	3.50	13.61	11.00	27 00	Cottonseed meal corn distiller grains, malt sprout ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1436
3.03	3.50	10.56	12.00	32 00	Cottonseed meal corn distiller grains, malt sprouts ground clipped oat by-product, ground grain screenings molasses and salt.	As certified,	2234
3.63	3.50	12.11	12.00	1 35	Cottonseed meal corn distiller grains, malt sprout ground clipped oat by-product, ground grain screenings molasses and salt.	As certified,	2104
4.41	3.50	10.42	12.00	29 00	Cottonseed meal corn distiller grains, malt sprout ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2086
4.57	3.50	9.12	12.00	26 50	Cottonseed meal corn distiller grains, malt sprout ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	2025
3.75	3.50	13.00	11.00	1 35	Cottonseed meal corn distiller grains, malt sprouts ground clipped oat by-product, ground grain screenings molasses and salt.	Cottonseed meal, corn distillers' grains, malt sprouts, ground clipped oat by-product, ground grain screenings, molasses, salt and small amount small whole weed seeds.	1482
4.04	.....	11.69	.....	23 08			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
PROPRIETARY STOCK, HORSE AND MULE FEEDS.					
2181	ACME-EVANS CO., INDIANAPOLIS, IND. Acme Stock Feed,	Chambersburg, George Walker.	Per ct. 8.05	Per ct. 9.13	Per ct. 10.00
1757	ACME MILLING CO., OLEAN N. Y. Acme Feed,	Coudersport, Gates Bros.,	12.12	9.63	7.00
1726	THE AKRON FEED & MILLING CO., AKRON, OHIO. Portage Stock Feed,	Somerset, John G. Emert,	9.53	8.31	10.00
1332	Portage Stock Feed,	Kittanning, William Gates Estate.	8.95	9.31	10.00
1612	Portage Stock Feed,	Parnassus, Johnston & Hamilton.	8.60	10.06	10.00
1535	Portage Stock Feed,	Latrobe, Latrobe Feed & Supply Co.	7.81	9.38	10.00
1375	Portage Stock Feed,	South Bethlehem, C. C. Lynn & Co.	8.10	9.25	10.00
1353	Portage Stock Feed,	Bedford, H. H. Lysinger,	8.02	9.00	10.00
1502	Portage Stock Feed,	Mars, Mars Milling & Feed Co.	7.31	9.31	10.00
1552	Portage Stock Feed,	Phillipsburg, J. O. Reed,	7.62	9.56	10.00
1861	Portage Stock Feed,	Farrell, J. B. Roux,	9.57	10.19	10.00
2111	Portage Stock Feed,	Erie, Erie Milling & Supply Co.	8.00	9.88	9.00
2282	Portage Stock Feed,	Jeannette, Keystone Supply Co.	6.52	9.31	9.00
		Average,	8.18	9.41	.....
1804	ALTOONA FEED MILLS, ALTOONA, PA. Horse Chop,	Altoona, Altoona Feed Mills,	11.75	12.88	7.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition	Identified by Microscopical Examination.	Chemist's Number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct	Per ct	Per ct	Per ct				
4.60	4.00	14.47	9.00	1 75	Shelled corn, barley, oat shorts, oat hulls and oat middlings.	Shelled corn, oat shorts, oat hulls and oat middlings.	2181
4.04	3.00	4.18	9.00	1 70	Corn, hominy, oat hulls and $\frac{1}{2}$ of 1% salt.	As certified,	1757
4.36	4.00	12.50	9.00	1 60	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1726
5.72	4.00	9.47	9.00	1 60	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	1332
5.02	4.00	10.46	9.00	1 60	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1612
4.44	4.00	12.84	9.00	1 50	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1535
5.14	4.00	12.63	9.00	1 50	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	1375
4.44	4.00	11.31	9.00	1 60	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	1353
4.13	4.00	14.00	9.00	1 50	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1502
4.52	4.00	12.31	9.00	1 60	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1552
4.53	4.00	11.32	9.00	1 35	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	As certified,	1861
6.15	4.00	11.34	9.00	1 70	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	2111
5.16	4.00	12.29	9.00	33 00	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings, and $\frac{1}{2}$ of 1% salt.	Shelled corn, oat shorts, oat hulls, oat middlings and salt.	2282
4.88	...	11.86	.....	31 73			
4.53	3.00	5.01	9.00	36 00	Oats, hominy, rye middlings, barley and bran.	As certified,	1804

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2221	T. M. RIDDLE, ALTOONA, PA. Acme Horse Chop,	Altoona, T. M. Biddle,	Per ct. 10.28	Per ct. 14.50	Per ct. 8.00
1667	BUFFALO CEREAL CO., BUFFALO, N. Y. Bufceco Horse Feed,	Philadelphia, Fred L. Le- mont,	9.38	12.38	11-12
2390	RUSHKILL MILLING CO., EASTON, PA. Mixed Feed,	Easton, The Easton Flour & Feed Co.	11.98	11.56	10.00
1658	THE CANTON FEED & MILLING CO., CANTON, OHIO. No. 1 Bako Stock Feed,	Washington, J. K. Law- son,	6.15	12.88	12.00
1663	No. 1 Bako C. & O. Feed,	Washington, Washington Grain & Feed Co.	10.69	8.38	8.00
1799	E. D. CLARK, ALTOONA, PA. E. D. Clark's Superior Horse Chop,	Altoona, E. D. Clark,	11.11	12.56	8-10
1807	THE CORNO MILLS CO., ST. LOUIS, MO. Corno Horse and Mule Feed,	Altoona, C. Leibovitz, ..	12.66	11.31	10.00
2218	Corno Stock Feed,	Altoona, C. Leibovitz,	7.75	10.75	9.00
2225	Corno Stock Feed,	Altoona, R. F. Notley, ..	8.43	10.81	9.00
		Average,	8.09	10.78	.....
2290	THE ALBERT DICKINSON CO., CHICAGO, ILL. White Cross Stock Feed,	Irwin, H. Altman & Son,	10.50	19.50	10.00
2005	White Cross Stock Feed,	Bellevernon, H. R. Crush- ore,	11.51	10.94	10.00
2233	White Cross Stock Feed,	Sayre, W. I. Teed's Sons,	10.95	10.19	10.00
		Average,	10.98	10.54	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.18	Per ct. 3.00	Per ct. 4.60	Per ct. 9.00	2 30	Rye, oats, corn, rye middlings and wheat middlings.	As certified,	2221
4.71	4-5	9.98	8-9	1 75	Ground oats, corn and barley, wheat middlings, hominy feed, oat shorts, oat middlings, oat hulls, linseed meal and corn gluten feed.	Ground oats, corn, wheat middlings, hominy feed, oat shorts, oat middlings oat hulls, linseed meal and corn gluten feed	1667
4.70	3.50	4.28	7.00	1 95	Corn, ear corn, rye, rye feed, oats and wheat middlings.	As certified,	2390
4.94	5.00	14.35	9.00	1 60	Corn products, oat feed, oat middlings and kiln dried stock salt.	Corn oil meal, oat middlings, oat hulls and salt.	1658
2.69	4.00	10.78	9.00	1 55	Corn products, oat feed, oat middlings and kiln dried stock salt.	Cracked corn and siftings, barley, oat middlings, large proportion oat hulls and salt.	1663
5.15	3.5-4.5	3.82	7-8	34 00	Oats, hominy feed, rye middlings, corn, red-dog flour and wheat middlings.	As certified,	1709
1.61	3.50	11.23	15.00	1 80	Ground alfalfa, cracked corn, hominy feed, oat feed (oat middlings, oat shorts and oat hulls.)	As certified,	1807
6.20	3.50	11.60	9.00	2.25	Oat middlings, oat shorts, oat hulls and hominy feed.	As certified,	2218
5.86	3.50	12.12	9.00	1 85	Oat middlings, oat shorts, oat hulls and hominy feed.	Oat middlings, oat shorts, oat hulls, hominy feed, brewers' dried grains, malt sprouts and corn distillers' dried grains.	2225
6.03	.....	11.85	.....	2 05			
4.90	3.50	5.95	10.00	1 85	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt.	2290
4.13	3.50	3.21	10.00	1 75	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt.	2005
4.34	3.50	5.20	10.00	2 00	Ground oats, ground barley, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt $\frac{1}{2}$ of 1%.	Ground oats, corn feed meal, wheat meal, ground corn bran, cottonseed meal and salt.	2233
4.46	.....	4.78	.....	1 87			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1507	THE DEWEY BROTHERS CO., BLANCHESTER, OHIO. Dewey's Stock Feed,	Batler, B. F. Shannon & Co.	Per ct. 8.57	Per ct. 18.83	Per ct. 11.00
2344	EMPIRE MILLS, OLEAN, N. Y. Empire Feed,	Carbondale, C. Ditchburn's Sons.	9.09	10.00	7.5-9
1754	EMPORIUM MILLING CO., EMPORIUM, PA. Emporium Feed,	Emporium, Emporium Milling Co.	10.41	9.88	7.63
2120	JOHN W. ESHELMAN, LANCASTER, PA. Eshelman's Stock Feed,	Lancaster, John W. Eshelman.	10.12	11.38	10.00
1870	Eshelman's Stock Feed,	Coatesville, Handwork Brothers.	11.10	10.88	10.00
2285	Eshelman's Stock Feed,	Derry, George Mowry & Bro.	10.90	10.50	10.00
		Average,	10.70	10.92	.....
2240	D. H. GRANDIN MILLING CO., JAMESTOWN, N. Y. Grandin's Stock Food,	Towanda, Dayton Milling Co.	8.45	10.00	8.5-12
2310	Grandin's Stock Food,	Mentrose, Harrington & Wilson.	12.20	9.63	8.5-12
		Average,	10.32	9.82	.....
216	LOUIS ELEVATOR CO., BUFFALO, N. Y. Buffalo Stock Feed,	Westfield, F. A. Ackley.	10.91	12.63	9-10
1553	Buffalo Stock Feed,	Phillipsburg, Centre Milling Co.	10.05	9.81	9-10
		Average,	10.48	11.22	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.31	Per ct. 3.50	Per ct. 10.50	Per ct. 12.00	1 65	Hominy feed, wheat and rye middlings, linseed oil meal, cottonseed meal, oat feed (oat middlings, oat hulls, oat shorts), and $\frac{2}{3}\%$ salt.	As certified,	1507
3.42	3-5	6.55	9.00	2 00	Corn, hominy and oat hulls.	As certified,	2344
4.30	2.97	7.83	9.00	1.70	Corn, hominy, oats, oat hulls and oat middlings.	Corn, hominy feed, oats, oat hulls, oat middlings and small amount ground screenings.	1754
4.59	3.00	9.45	9.00	34 50	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified,	2125
3.92	3.00	8.72	9.00	1 65	Oat feed, cottonseed meal, ground grain screenings, wheat middlings, rye middlings, corn meal and hominy feed.	As certified,	1875
2.99	3.00	8.85	9.00	1.75	Oat middlings, wheat middlings, cottonseed meal, ground grain screenings, rye middlings, corn meal, oat hulls and hominy feed.	As certified,	2287
3.83	.....	9.00	.....	34 17			
5.78	4-7	11.22	9-13	2 00	Tempered fine white hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	2249
5.80	4-7	10.48	9-13	2 00	Tempered fine white hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	2310
5.79	.....	10.85	.....	2 00			
4.47	4-6	5.31	9.00	1 90	Corn, barley, Kaffir, oats, reddog flour, oat hulls, oat middlings, hominy feed, cottonseed meal and salt, $\frac{3}{4}$ of 1%.	As certified,	2164
3.90	4-6	7.66	9.00	1 75	Corn, barley, Kaffir, oats, reddog flour, oat hulls, oat middlings, hominy feed, cottonseed meal and salt, $\frac{3}{4}$ of 1%.	Corn, Kaffir corn, oats, reddog flour, oat hulls, oat middlings, hominy feed, cottonseed meal and salt.	1558
4.19	.....	6.48	.....	1 83			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1396	THE IMPERIAL GRAIN & MILLING CO., TOLEDO, OHIO. C. O. & B. Feed,	Braddock, Irvin Muir, ..	Per ct. 8.66	Per ct. 9.38	Per ct. 8.90
1761	JAMESTOWN ELECTRIC MILLS. JAMESTOWN, N. Y. Jem Stock Feed,	Coudersport, Eulalia Mills	11.82	10.00	10-12
1039	Jem Stock Feed,	Bradford, L. A. Fisher & Co.	9.29	10.81	10-12
2034	Jem Stock Feed,	DuBois, Timlin, Kelly Co.	10.38	11.38	10.00
		Average,	10.19	10.73	.....
1805	KLEPSEB BROTHERS. MARTINSBURG, PA. Horse Chop,	Altoona, Klepser Bros....	11.60	13.69	7.00
1542	CHARLES A. KRAUSE MILLING CO., MILWAUKEE WIS. Badger Stock Feed,	Mt. Pleasant, J. H. Brown & Son.	8.41	10.13	10.00
2146	Badger Stock Feed,	Troy, Farmers' & Consumers' Commercial Union.	8.27	10.38	10.00
1850	Badger Stock Feed,	Berwyn, William H. Fritz	10.93	8.81	10.00
1986	Badger Stock Feed,	Fredericktown, Keystone Mills Co.	8.44	10.94	10.00
1577	Badger Stock Feed,	Sellersville, J. A. Kooker,	7.96	9.50	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.44	Per ct. 3.70	Per ct. 9.20	Per ct. 9.00	1 60	Shelled and ear corn oats, barley, wheat flour, oat hulls, oat shorts, oat middling cottonseed meal and salt, $\frac{1}{4}$ of 1%.	As certified,	1306
4.59	5-7	10.87	9.00	32 00	Ground corn, hominy feed, corn oil meal ground oats, oat middlings, oat shorts, reground oat hulls, linseed oil meal and small percentage of fine salt.	As certified,	1761
5.62	5-7	11.28	9.00	1 65	Ground corn, hominy feed, corn oil meal ground oats, oat middlings, oat shorts, reground oat hulls, linseed oil meal and small percentage of fine salt.	As certified,	1639
3.45	5.00	8.80	9.00	1 70	Ground corn, hominy feed, corn oil meal ground oats, oat middlings, oat shorts, reground oat hulls, linseed oil meal and small percentage of fine salt.	As certified,	2024
4.56	.....	10.31	.....	33 00			
4.15	3.00	3.94	7-9	1 80	Rye, oats, hominy and wheat middlings.	As certified,	1806
4.63	4.50	11.96	9.00	1 60	Hominy feed, barley, maize corn oil meal, maize red dog flour, oat meal mill by- product (oat mid- dlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize red dog flour, oat middlings, oat hulls, oat shorts and salt.	1542
4.48	4.50	12.12	9.00	1 70	Hominy feed, barley, maize corn oil meal, maize red dog flour, oat meal mill by- product (oat mid- dlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize red dog flour, oat middlings, oat hulls, oat shorts and salt.	2146
3.34	4.50	14 08	9.00	1 85	Hominy feed, barley, maize corn oil meal, maize red dog flour, oat meal mill by- product (oat mid- dlings, oat hulls, oat shorts) and salt.	As certified,	1850
4.96	4.50	12.96	9.00	1 70	Hominy feed, barley, maize corn oil meal, maize red dog flour, oat meal mill by- product (oat mid- dlings, oat hulls, oat shorts) and salt.	As certified,	1986
4.88	4.50	12.61	9.00	1 65	Hominy feed, barley, maize corn oil meal, maize red dog flour, oat meal mill by- product (oat mid- dlings, oat hulls, oat shorts) and salt.	As certified,	1577

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2229	Badger Stock Feed,	Altoona, H. H. Langdon,	Per ct. 8.20	Per ct. 9.94	Per ct. 10.00
1531	Badger Stock Feed,	Greensburg, McFarland Supply Co.	8.60	9.88	10.00
2252	Badger Stock Feed,	New Albany, F. T. Myn- ard Roller Mills.	7.30	10.19	10.00
1551	Badger Stock Feed,	Phillipsburg, J. O. Reed.,	8.15	10.06	10.00
2361	Badger Stock Feed,	Castle Shannon, George Renton & Co.	7.58	9.63	10.00
2079	Badger Stock Feed,	Millerstown, I. B. Se- christ.	9.46	10.56	10.00
2064	Badger Stock Feed,	Newville, S. E. Shenk & Sons.	8.43	10.44	10.00
1483	Badger Stock Feed,	Perkasie, Edwin F. Stover	8.06	11.13	10.00
		Average,	8.44	10.12	.....
1453	C. O. & B. Feed	South Brownsville, C. D. Chamberlain.	8.25	10.00	10.00
2362	Cream City Horse Feed,	Castle Shannon, George Renton & Co.	16.10	11.85	10.00
1947	THE LAKE ERIE MILLING CO., TOLEDO, OHIO. Mollett's Park City Stock Feed,	New Castle, Fisher & Mengle.	11.35	8.17	8-9

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition	Identified by Microscopic Examination.	Chemist's number.
Pound.	Guaranteed.	Pound.	Guaranteed.				
Per ct. 4.30	Per ct. 4.50	Per ct. 12.64	Per ct. 9.00	1 80	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2229
4.62	4.50	11.52	9.00	32 00	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	1531
4.65	4.50	11.97	9.00	1 85	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2252
4.60	4.50	11.77	9.00	1 60	Hominy feed, barley, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	1551
5.01	4.50	13.41	9.00	41 00	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2361
4.36	4.50	10.62	9.00	1 75	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	2079
4.62	4.50	14.06	9.00	32 00	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and salt.	2064
5.65	4.50	11.26	9.00	1 50	Hominy feed, barley, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	1483
4.62	.....	12.38	.....	34 23			
4.64	4.50	10.48	9.00	29 00	Hominy feed, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	Hominy feed, maize corn oil meal, maize reddog flour, oat middlings, oat hulls, oat shorts and small amount whole weed seeds.	1453
1.85	1.25	11.58	14.00	40 00	Alfalfa meal, molasses, corn, oats and salt.	As certified,	2362
2.88	3.5-4.5	10.91	9.00	1 65	Corn, oats, oat groats, oat middlings, oat hulls, corn meal offal 1/2 to 1% salt.	As certified,	1947

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2385	MANN & ALLSHOUSE, EASTON, PA. Mixed Feed,	Easton, Mann & Allshouse.	Per ct. 12.21	Per ct. 10.69	Per ct. 6-10
2331	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Mixed Feed,	Scranton, C. P. Matthews & Sons, Inc.	10.50	12.31	7-9
1936	Best Mixed Feed for Horses,	Wilkes-Barre, C. P. Matthews & Sons, Inc.	10.87	12.31	9-10
2328	Best Mixed Feed for Horses,	Scranton, C. P. Matthews & Sons, Inc.	8.97	11.81	9-10
		Average,	9.92	12.06	.....
1337	NEWSOME FEED & GRAIN CO., PITTSBURGH, PA. Challenge Stock Feed,	Kittanning, William Gates Estate.	9.36	10.13	10.00
1775	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Justice Brand Stock Feed,	Yeagertown, J. M. Yeager.	9.58	9.06	10.00
1473	THE OTTO WEISS ALFALEA STOCK FOOD CO., WICHITA, KANS. Mixed Feed Otto Weiss Stock Feed, ...	Pittsburgh, The I. W. Scott Co.	10.21	12.31	11.00
1503	D. H. OWEN CO., YOUNGSTOWN, OHIO. Challenge Stock Feed,	Mars, Mars Milling & Feed Co.	7.33	9.88	10.00
1331	THE PARK & POLLARD CO., BOS- TON, MASS. Stock Feed,	Bethlehem, C. J. Fluck & Co.	8.67	9.94	9.00
2343	PHELPS & SIBLEY CO., CUBA, N. Y. Yellow P. & S. Feed,	Carbondale, C. Ditchburn's Sons.	10.05	9.50	7-8
2206	Yellow P. & S. Feed,	Tioga, Paul V. Harvey, ..	9.23	9.31	7-8
		Average,	9.64	9.41	.....
2013	PURITY OATS CO., DAVENPORT, IOWA Iowa Stock Feed,	Terre Hill, A. B. Musser,	9.19	12.38	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.33	Per ct. 2-6	Per ct. 5.50	Per ct. 6.00	1 80	Corn, rye, rye bran, rye middlings and wheat middlings.	As certified,	2385
5.99	4-6	5.46	5-6	2 25	Hominy, corn, oat feed and oat hulls.	Corn, hominy, oat middlings and oat hulls.	2331
6.54	3-4	5.56	6-7	2.10	Corn, oats, wheat middlings and linseed meal.	As certified,	1936
5.80	3-4	8.17	6-7	2 40	Corn, oats, wheat middlings and linseed meal.	Corn, oats, barley, wheat middlings and linseed oil meal.	2328
6.17	.....	6.86	.....	2 25			
3.61	4.50	9.78	9.00	1 60	Hominy feed, maize corn oil meal, maize reddog flour, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and salt.	As certified,	1237
4.09	3.00	9.96	9.00	32 00	Ground oats, corn feed meal, linseed oil meal, wheat middlings, oat middlings, oat hulls, clipped oat by-product containing some seeds and salt, $\frac{1}{2}$ of 1%.	As certified,	1775
3.64	3.00	12.10	14.00	1 95	Alfalfa meal, corn chop, crushed oats, wheat bran and $\frac{1}{2}$ of 1% salt.	As certified,	1473
3.61	4.00	15.83	9.00	1 50	White or yellow shelled corn, barley, oat shorts, oat hulls, oat middlings and $\frac{1}{2}$ of 1% salt.	As certified,	1503
4.24	3.00	8.77	12.00	33 00	Ground corn, hominy feed and oat feed.	Corn, hominy feed, oat middlings and oat hulls.	1381
3.76	3-4	9.43	9.00	2 00	Corn meal, corn feed meal and oat hulls.	As certified,	2243
3.77	3-4	9.02	9.00	1 85	Corn meal, corn feed meal and oat hulls.	As certified,	2296
3.77	.....	9.22	.....	1 93			
5.17	4.00	9.89	9.00	33 00	Wheat middlings, corn meal, hominy feed, brewers' dried grains, oat meal mill by-product (oat middlings, oat shorts, oat hulls) and 1% of table salt.	As certified,	2015

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	THE QUAKER OATS CO., CHICAGO. ILL.				
1878	Boss Feed,	Coatesville, J. T. Gay &	Per ct. 14.85	Per ct. 8.69	Per ct. 8.00
1956	Boss Feed,	New Castle, P. Wagner & Son.	10.65	8.44	8.00
2409	Boss Feed,	Lebanon, A. M. Welt- mer s Sons.	8.91	9.94	8.00
1732	Boss Feed,	Rockwood, Penrose Wolf,	8.91	9.38	8.00
		Average,	10.83	9.11	.....
2188	C. O. & B. Feed,	Wellsboro, Equity Co- Operative Exchange.	8.38	12.63	10.00
1614	C. O. & B. Feed,	Parnassus, Johnston & Hamilton.	8.47	11.75	10.00
		Average,	8.42	12.19	.....
1594	Schumacher Feed,	Doylestown, H. S. Beldler	8.77	11.69	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.98	Per ct. 3.00	Per ct. 9.21	Per ct. 9.00	1 75	Ground corn, hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts and $\frac{1}{2}$ of 1% salt.	As certified. Meal mites present.	1878
3.06	3.00	9.87	9.00	1 65	Ground corn, hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts and $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, barley, oat middlings, oat hulls, oat shorts and salt.	1956
4.23	3.25	9.12	9.00	2 00	Ground corn, hominy feed, ground Kaffir corn, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2499
4.55	3.00	10.10	9.00	1 65	Ground corn, hominy feed, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1732
3.71	.....	9.57	.....	1 76			
4.01	3.25	9.59	9.00	1.90	Ground corn, hominy feed, ground barley, wheat flour, ground Kaffir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified,	2133
3.94	3.25	10.99	9.00	1.60	Ground corn, hominy feed, ground barley, wheat flour, ground Kaffir corn, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Ground corn, ground barley, hominy feed, wheat middlings with ground screenings, ground puffed rice, ground puffed wheat, cottonseed meal, ground Kaffir corn, oat middlings, oat hulls, oat shorts, salt and trace of small whole weed seeds.	1614
3.98	.....	10.29	.....	1.75			
4.53	3.25	9.48	10.00	27.00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground, puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1594

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1273	Schumacher Feed,	Johnstown, G. Bostert & Son.	Per ct. 9.59	Per ct. 10.31	Per ct. 10.00
1356	Schumacher Feed,	Bedford, Davidson Bros.,	8.53	12.19	10.00
2212	Schumacher Feed,	Mansfield, Equity Co-Operative Exchange.	8.84	11.56	10.00
2318	Schumacher Feed,	Hop Bottom, Foster Mill Co., Inc.	8.30	11.50	10.00
2075	Schumacher Feed,	Newport, W. H. Kepner.	9.36	12.13	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.47	Per ct. 3.25	Per ct. 9.75	Per ct. 9.00	30.00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground, puffed rice, ground, puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1273
4.02	3.25	9.95	9.00	1.60	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground, puffed rice, ground, puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified,	1356
4.09	3.25	9.51	10.00	1 90	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, ground Kaffir corn, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2212
2.99	3.25	10.40	10.00	2 00	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2318
3.93	3.25	10.46	9.00	1 70	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2075

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1988	Schumacher Feed,	Fredericktown, Keystone Mills Co.	Per ct. 9.39	Per ct. 10.81	Per ct. 10.00
2036	Schumacher Feed,	Brookville, Kline's Sifter Mills.	9.33	10.75	10.00
2085	Schumacher Feed,	Oxford, H. M. Long,	10.32	11.44	10.00
2253	Schumacher Feed, <i>2nd</i>	New Albany, F. T. Mynard Roller Mills.	8.46	10.81	10.00
2141	Schumacher Feed, <i>2nd</i>	Canton, Preston Brothers,	9.15	11.69	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.62	Per ct. 3.25	Per ct. 10.56	Per ct. 9.00	1 70	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified.	1988
3.63	3.25	11.21	9.00	35 00	Ground corn, ground middlings with ground barley, wheat flour, hominy feed, wheat screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2036
2.63	3.25	9.60	9.00	32 00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2085
3.61	3.25	10.20	9.00	1 85	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oat meal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2253
3.53	3.25	9.85	10.00	1 70	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oat meal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2141

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2159	Schumacher Feed,	Westfield, H. Z. Pride & Son.	Per ct. 9.95	Per ct. 12.44	Per ct. 10.00
1346	Schumacher Feed,	Allentown, George B. Shelly Estate.	8.86	10.81	10.00
1633	Schumacher Feed,	Bradford, Smith Brothers	10.15	11.88	10.00
2048	Schumacher Feed,	Clarion, A. C. Snyder & Son.	9.58	11.94	10.00
1491	Schumacher Feed,	Quakertown, T. & J. Strawn.	8.61	11.75	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.41	3.25	9.79	9.00	1.90	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2159
4.75	3.25	9.83	9.00	35.00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt.	As certified,	1346
3.86	3.25	8.30	9.00	33.00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	1633
3.58	3.25	11.76	9.00	1.90	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2048
3.61	3.25	10.78	10.00	1.55	Ground corn, ground barley, hominy feed, wheat flour, cottonseed meal, ground puffed rice, ground puffed wheat middlings with ground screenings not exceeding mill run, oat meal by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1491

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2137	Schumacher Feed,	Waynesburg, Waynesburg Milling Co.	Per ct. 8.84	Per ct.. 11.44	Per ct. 10.00
		Average,	9.17	11.51	.....
2101	Schumacher Special Horse Feed,	West Chester, I. H. Bailey	9.79	10.88	9.25
2210	Sterling Feed,	Mansfield, Sun Milling Co.	8.40	12.19	10.00
1310	Victor Feed,	McKeesport, Keystone Commercial Co.	8.00	9.31	8.00
1320	Victor Feed,	Leechburg, Harry May, ..	9.69	9.38	8.00
		Average,	8.84	9.35	.....
1341	White Diamond Feed,	New Kensington, A. H. Klugh.	10.17	9.19	8.00
2043	White Diamond Feed,	Clarion, A. C. Snyder & Son.	10.60	10.69	8.00
		Average,	10.38	9.94	.....
1927	ROBBINS MILLING CO., WILKES- BARRE, PA. Luzerne Capitol Stock Feed,	Wilkes-Barre, Robbins Milling Co.	11.37	13.13	12-14

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.75	Per ct. 3.25	Per ct. 10.56	Per ct. 9.00				
				2.00	Ground corn, ground barley, wheat flour, hominy feed, wheat middlings with ground screenings not exceeding mill run, ground puffed rice, ground puffed wheat, cottonseed meal, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2137
3.88	.....	10.11	.....	34.59			
3.60	3.25	7.32	8.00	40.00	Ground corn, crushed oats, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	2101
4.01	3.25	10.42	9.00	1.90	Ground corn, hominy feed, ground barley, wheat flour, wheat middlings with ground screenings not exceeding mill run, cottonseed meal, ground puffed rice, ground puffed wheat, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) $\frac{1}{2}$ of 1% salt and ground Kaffir corn.	As certified,	2210
4.76	3.00	10.81	12.00	1.50	Ground corn, hominy feed, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	As certified,	1310
4.23	3.00	9.59	9.00	1.55	Ground corn, hominy feed, oatmeal mill by-product (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, oat middlings, oat hulls, oat shorts, salt and trace of whole weed seeds.	1320
4.50	.....	9.95	.....	1.53			
3.60	3.25	7.19	9.00	1.60	Ground corn, hominy feed, oatmeal mill by-product (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Ground corn, hominy feed, oat middlings, oat hulls, oat shorts, salt and buckwheat.	1341
3.58	3.25	8.99	9.00	1.90	Ground corn, hominy feed, oatmeal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified,	2043
3.59	.....	8.09	.....	1.75			
4.91	4-6	7.44	6-9	2.05	Alfalfa meal, brown middlings, hominy feed, cracked corn, crushed oats, oil meal and salt.	As certified,	1927

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2352	TOLEDO ELEVATOR, INDIAN- APOLIS, IND. Star Feed,	Honesdale, Honesdale Milling Co.	Per ct. 10.21	Per ct. 11.94	Per ct. 8-10
2393	FRANK C. WILLIAMS, EASTON, PA. Dandy Horse Feed,	Easton, Frank C. Will- iams.	9.67	11.50	10.40
2394	Tip Top Horse Feed,	Easton, Frank C. Will- iams.	9.47	11.19	10.00
2376	J. M. WYCKOFF, EAST STROUDS- BURG, PA. Mixed Feed,	East Stroudsburg, J. M. Wyckoff.	12.34	10.81	6-10
1598	PROPRIETARY STOCK, HORSE AND MULE FEEDS WITH MOLASSES. ALFALFA FEED MILLS, PHILA- DELPHIA, PA. Keystone Alfalfa Feed for Horses,	Philadelphia, Alfalfa Feed Mills.	17.39	9.53	9.00
1950	AMERICAN MILLING CO., PEORIA, ILL. Sucrene Horse Feed,	Ellwood City, W. W. Davidson & Son.	13.94	10.96	9.00
1379	Sucrene Horse Feed with Alfalfa,	Bethlehem, C. J. Fluck & Co.	17.75	10.50	10.00
1364	Sucrene Horse Feed with Alfalfa,	Huntingdon, L. S. Good- man & Son.	13.49	11.04	10.00
1588	Sucrene Horse Feed with Alfalfa,	North Wales, Frank H. Leister.	13.19	10.01	10.00
1743	Sucrene Horse Feed with Alfalfa,	Philadelphia, W. T. Will, Jr.	15.13	10.42	10.00
		Average,	16.14	10.49	.....
1951	Tip Top Alfalfa Horse Feed,	Ellwood City, W. W. Davidson & Son.	14.45	12.79	10.00
1653	J. J. BADENOCH CO., CHICAGO, ILL. Kumboss Dairy Feed,	Washington, C. S. Hun- ter Co.	18.14	12.14	10.00
1735	H. BEIDLER & CO., PHILADEL- PHIA, PA. Beidler's Mecca Horse Feed,	Philadelphia, Henry Stein- man.	17.21	10.05	5-8

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.83	Per ct. 6-7	Per ct. 5.27	Per ct. 9.00				
				2.20	Hominy feed and ground corn cob, containing $\frac{1}{2}$ of 1% salt.	As certified,	2352
4.05	3.50	4.08	5.50	1.80	Corn, rye middlings, oats and oat tailings.	Corn, rye middlings, oats, oat tailings and small amount ground grain screenings.	2393
4.00	3.30	5.38	5.50	1.70	Corn, rye middlings, oats and oat tailings.	Corn, rye middlings, oats, oat tailings and small amount ground grain screenings.	2394
3.31	2-6	6.12	5-9	1.90	Shelled and ear corn, rye bran and middlings and oats.	As certified,	2376
2.69	2.50	7.66	12.00	32.00	Alfalfa, corn, oats, barley, cane molasses and $\frac{1}{2}$ of 1% salt.	Alfalfa, corn, oats, rye, barley, cane molasses, salt and small amount whole weed seeds.	1598
3.60	2.50	8.27	12.00	1.85	Corn, molasses, oats, oat feed, corn, distillers' dried grains and salt.	Corn, molasses, oats, oat middlings, oat hulls, corn, distillers' dried grains and salt.	1950
2.84	2.50	8.84	12.00	36.00	Molasses, alfalfa, corn, oats, barley and salt.	As certified,	1379
3.16	2.50	8.39	12.00	1.75	Molasses alfalfa, corn, oats, barley and salt.	As certified,	1364
2.55	2.50	9.99	12.00	35.00	Molasses, alfalfa, corn, oats, barley and salt.	As certified,	1583
2.76	2.50	9.21	12.00	1.75	Molasses, alfalfa, corn, oats, barley and salt.	Molasses, alfalfa, corn, oats, barley, salt and trace of whole weed seeds.	1743
2.83	.....	9.10	.....	35.25			
3.33	2.50	10.42	12.00	1.75	Molasses, alfalfa, corn, oats, distillers' dried grains and salt.	As certified,	1951
0.73	0.50	14.93	25.00	1.40	Alfalfa meal and molasses.	As certified,	1653
2.64	1-2	8.54	15.20	1.70	Cracked corn, oats, alfalfa meal and molasses.	As certified,	1735

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1980	BELLEWOOD MILLS, BELLEWOOD, PA. Horse Chop,	Bellewood, Bellewood Mills.	Per ct. 10.72	Per ct. 10.94	Per ct. 7.00
2219	T. M. BIDDLE, ALTOONA, PA. My Best Horse Feed,	Altoona, T. M. Biddle,...	17.02	10.21	9.00
1625	CHARLES W. BOSLER, OGONTZ, PA. Alfalfa Feed,	Ogontz, Charles W. Bosler,	20.47	9.26	.....
1571	Alfalfa Feed,	Sellersville, J. A. Kooker,	18.24	10.02	10.00
		Average,	19.35	9.64	.....
1770	THE BUCKEYE CEREAL CO., MASSILLON, OHIO. Energy Horse Feed,	Panxsutawney, Mahoning Valley Milling Co.	12.55	11.81	12.00
1564	Energy Horse Feed,	Clearfield, J. T. Murphy,	15.80	11.54	13.00
1569	Energy Horse Feed,	Morrisdale, Morrisdale Feed & Grain Co.	16.37	13.36	13.00
		Average,	14.90	12.24	.....
1313	EDWARD J. BUTLER & CO., CHICAGO, ILL. Special Horse Feed,	McKeesport, Jeffreys Brothers.	16.83	11.50	10.00
1627	CHICAGO FEED MILLS, CHICAGO, ILL. Apollo Horse Feed,	Philadelphia, E. L. Shute & Co.	15.62	12.18	9.00
1902	CLOVER LEAF MILLING CO., BUFFALO, N. Y. Clover Leaf Horse Feed,	Malvern, Thomas Haines & Co.	16.85	10.35	10.00
2082	Clover Leaf Horse Feed,	Toughkenamon, H. A. Mendenhall.	13.52	10.62	10.00
		Average,	15.18	10.49	.....
2019	Peerless Horse Feed,	Bird-in-hand, J. A. Umble & Bro.	15.36	10.81	10.00
1808	THE CORNO MILLS CO., ST. LOUIS, MO. Corno Sweet Feed,	Altoona, C. Leibovitz, ..	15.99	12.17	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.23	Per ct. 3.50	Per ct. 4.78	Per ct. 7-9	2 10	Corn, oats, rye, wheat middlings, one sack of Sucrene Dairy Feed in 1½ tons. (Molasses, cottonseed meal, corn gluten feed, ground and bolted grain screenings, clipped oat by-product, corn, distillers' dried grains and salt).	As certified,	1980
2.72	2.30	8.71	20.00	2.20	Corn, oats, alfalfa and and sugar beetsyrup.	As certified,	2219
1.94	.....	9.89	.....	26.50	.....	Corn, oats, alfalfa meal and molasses. Sample musty.	1625
1.76	2.00	9.89	15.00	1.65	.....	Corn, oats, alfalfa meal and molasses.	1571
1.85	.....	9.89	.....	34.75			
2.92	4.00	6.39	7-8	38 00	Corn, oats, barley feed, alfalfa and molasses.	As certified,	1770
3.96	4.02	5.33	8.00	2 00	Corn, oats, barley feed, alfalfa and molasses.	As certified,	1564
3.84	4.20	5.50	13.30	1 85	Corn, oats, barley feed, alfalfa and molasses.	Corn, oats, barley feed, alfalfa, molasses and small amount small whole weed seeds.	1569
3.57	.....	5.74	.....	38 33			
2.20	3.00	12.90	12.00	1 70	Corn, oats and alfalfa flavored with molasses.	As certified,	1313
2.05	2.00	10.42	15.00	32 00	Corn, oats, alfalfa meal and syrup.	As certified,	1627
2.11	2.00	12.25	12.00	36 00	Cracked corn, crushed oats, alfalfa meal, molasses and ½ of 1% salt.	As certified,	1902
2.78	2.00	9.96	12.00	37 00	Cracked corn, crushed oats, alfalfa meal, molasses and ½ of 1% salt.	As certified,	2082
2.45	.....	11.10	.....	36 50			
2.19	2.00	12.78	12.00	1 70	Cracked corn, crushed oats, alfalfa meal, molasses and ½ of 1% salt.	As certified,	2019
2.66	2.50	10.39	15.00	1 80	Whole oats, cracked corn, ground alfalfa, molasses, cottonseed meal, oat middlings, oat shorts and oat hulls.	As certified,	1828

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2223	Corno Sweet Feed,	Altoona, R. F. Notley, ..	Per ct. 14.70	Per ct. 13.59	Per ct. 10.00
		Average,	15.34	12.88	.....
1813	Nutro Sweet Horse Feed,	Williamsport, F. W. Dawson & Son.	15.50	10.70	9.00
1407	THE DEWEY BROTHERS CO., BLANCHESTER, OHIO. Dewey's Horse and Mule Feed,	Monaca, Monaca Roller Mills.	15.05	10.31	9.00
2232	THE ALBERT DICKINSON CO., CHICAGO, ILL. Dickinson's Hobby Horse Feed,	Hollidaysburg, Fay Mill- ing Co.	14.25	12.56	9.00
1324	Dickinson's Hobby Horse Feed,	Kittanning, J. A. Gault & Co.	14.95	12.63	9.00
1458	Dickinson's Hobby Horse Feed,	Uniontown, J. F. Hogsett & Son.	14.70	11.79	9.00
1858	Dickinson's Hobby Horse Feed,	Sbaron, J. M. Porter,	14.97	11.67	9.00
2371	Dickinson's Hobby Horse Feed,	Etna, John E. Ross,	13.68	13.23	9.00
2234	Dickinson's Hobby Horse Feed,	Sayre, W. I. Teed's Sons,	15.93	12.80	9.00
		Average,	14.74	12.45	.....
1457	Honeysuckle Feed,	Uniontown, J. F. Hogsett & Son.	13.76	14.72	10.00
1620	Rival Horse Feed,	Philadelphia, Charles Hieber & Co.	15.83	11.22	9.00
1675	DIXIE MILLS CO., EAST ST. LOUIS, ILL. Anchor Molasses Horse and Mule Feed,	Philadelphia, David Mc- Mullin, Jr.	16.10	9.43	11.00
1683	Anchor Molasses Horse and Mule Feed,	Kane, Swanson Grocery Co.	16.92	9.21	11.00
		Average,	16.51	9.32	.....
1403	Dixie Horse and Mule Feed,	Beaver Falls, Dodds & Garrett.	16.00	9.73	10.00
1750	Dixie Horse and Mule Feed,	Philadelphia, Greer Bros.,	15.15	10.01	10.00
1678	Dixie Horse and Mule Feed,	Philadelphia, Walton Brothers.	14.64	9.96	10.00
		Average,	15.26	9.90	.....
2128	JOHN W. ESHELMAN, LANCASTER, PA Alfalfa Horse Feed,	Lancaster, John W. Eshelman.	13.68	10.96	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.50	2.50	11.45	15.00	2 20	Whole oats, ground choice alfalfa, cracked corn, cottonseed meal and molasses.	As certified,	2223
2.58	.....	10.92	.....	2 00			
2.57	2.50	11.27	15.00	1 50	Ground alfalfa, cracked corn, oat middlings, oat shorts, oat hulls, molasses, peat, ground grain screenings and cottonseed meal.	As certified,	1813
2.68	2.00	9.26	12.00	1 65	Corn, oats, alfalfa meal and molasses.	As certified,	1407
1.56	1.50	15.35	15.00	39 00	Corn, oats, barley, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses.	2232
2.06	1.50	11.44	15.00	32 00	Corn, oats, barley, alfalfa meal and molasses.	As certified,	1324
1.85	1.50	10.29	15.00	1 75	Corn, oats, barley, alfalfa meal and molasses.	As certified,	1458
2.02	1.50	11.79	15.00	1 75	Corn, oats, barley, alfalfa meal and molasses.	As certified,	1858
1.68	1.50	15.43	15.00	2 00	Corn, oats, barley, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses.	2371
1.77	1.50	12.14	15.00	2 05	Corn, oats, barley, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses.	2234
1.83	.....	12.74	.....	37 00			
1.03	0.50	14.94	25.00	1 50	Alfalfa meal and molasses.	As certified,	1457
2.02	1.50	12.73	15.00	1 50	Corn, oats, barley, alfalfa meal and molasses.	As certified,	1620
3.41	3.00	5.55	12.00	33 00	Ground alfalfa, corn, oats, and sugar cane molasses.	Ground alfalfa, corn, oats, barley and cane molasses. Sample mouldy and damaged with meal mites.	1675
3.37	3.00	6.47	12.00	1 75	Ground alfalfa, corn, oats, and sugar cane molasses.	Ground alfalfa, corn, oats, barley and cane molasses.	1683
3.39	.....	6.01	.....	34 00			
2.88	2.50	7.85	12.00	1 65	Ground alfalfa, corn, oats, and sugar cane molasses.	As certified,	1403
2.03	2.50	10.84	12.00	1 70	Ground alfalfa, corn, oats, and sugar cane molasses.	As certified,	1750
2.41	2.50	8.98	12.00	31 50	Ground alfalfa, corn, oats, and sugar cane molasses.	As certified,	1678
2.44	.....	9.22	.....	32 83			
2.67	2.50	9.70	12.00	39 00	Molasses, alfalfa, corn, oats, barley and salt.	As certified,	2129

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1714	EXCELLO FEED MILLING CO., ST. LOUIS, MO. Excello Horse Feed,	Philadelphia, P. A. McClain & Co.	Per ct. 16.32	Per ct. 11.45	Per ct. 10.00
1436	FARAMEL MANUFACTURING CO., BUFFALO, N. Y. Faramel Alpha Horse Feed,	Colmar, W. H. D. Godshall.	12.79	9.15	9.00
1631	Faramel Horse Feed,	Bradford, Smith Brothers,	12.12	9.87	9.00
1769	Faramel Horse Feed,	Reynoldsville, Patton & Daugherty.	17.64	8.67	9.00
		Average,	14.88	9.32	.....
1903	THE FERGER GRAIN CO., CINCINNATI, OHIO. Derby Horse Feed,	Wayne, L. K. Burket & Bro.	16.32	11.11	10.00
1739	Derby Horse Feed,	Philadelphia, Robert McCracken.	17.06	10.20	10.00
		Average,	16.69	10.66	.....
2152	GLOBE ELEVATOR CO., BUFFALO, N. Y. Anchor Brand Horse Feed,	Troy, H. M. Spalding & Son,	15.22	10.05	9.00
1622	GOLDEN GRAIN MILLING CO., EAST ST. LOUIS, ILL. Ben Hur Horse and Mule Feed,	Philadelphia, Charles Hieber & Co.	17.60	11.05	10.00
2002	Golden Grain Horse and Mule Feed, ..	Monongahela, J. B. Hayward & Son.	14.68	10.47	10.00
1677	Mascot Horse and Mule Feed,	Philadelphia, Walton Brothers.	15.85	11.83	9.00
1300	Puriton Horse and Mule Feed,	Pittsburgh, W. N. Gordon & Co.	16.65	11.46	9.00
1606	Puritan Horse and Mule Feed,	Philadelphia, Charles H. Longcoke.	19.10	9.41	9.00
		Average,	18.87	10.44	.....
1944	GREAT WESTERN FEED CO., ST. LOUIS, MO. Purity Syrup Feed,	New Castle, City Roller Mills.	14.22	10.16	9.00
2283	HALES & EDWARDS CO., CHICAGO, ILL. Harvest Horse Feed,	Jeannette, Keystone Supply Co.	16.29	10.45	10.00
1715	Harvest Horse Feed,	Philadelphia, P. A. McClain & Co.	18.09	11.65	10.00
2029	Harvest Horse Feed,	DuBois, Timlin, Kelly Co.	15.55	13.84	10.00
		Average,	16.64	11.98	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.51	Per ct. 3.00	Per ct. 10.01	Per ct. 15.00				
				1 85	Alfalfa meal, corn chop, crushed oats, molasses, linseed meal and salt.	As certified,	1714
2.23	2.00	11.34	12.50	1 75	Oats, corn, alfalfa and molasses.	As certified,	1436
3.52	4.00	4.76	6.00	40 00	Oats, corn, wheat bran and molasses.	Corn, oats, wheat bran and molasses. Sample damaged and moldy.	1631
3.28	4.00	5.35	6.00	1 80	Oats, corn, wheat bran and molasses.	Corn, oats, wheat bran and molasses. Sample damaged and moldy.	1769
3.60	.....	5.05	.....	38 00			
3.10	3.00	8.16	12.00	1 75	Corn, oats, bran, alfalfa meal and molasses.	As certified,	1903
3.04	3.00	9.22	12.00	1 65	Corn, oats, bran, alfalfa meal and molasses.	Corn, oats, wheat bran alfalfa meal and molasses. Damaged, weevils and meal mites present.	1739
3.07	.....	8.69	.....	1 70			
3.70	3.00	6.60	7.00	2 00	Crushed and ground oats, ground and cracked corn, corn bran, wheat bran, crushed barley and molasses.	Crushed and ground oats, ground and cracked corn, corn bran, wheat bran and molasses.	2152
2.32	2.00	8.22	12.00	1 70	Corn, oats, alfalfa, molasses and $\frac{1}{4}$ of 1% salt.	Corn oats, alfalfa molasses and salt. Sample musty.	1622
2.74	2.00	9.34	12.00	1 80	Corn, oats, alfalfa, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2002
1.36	1.50	12.95	14.00	30 50	Corn, oats, alfalfa, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1677
1.60	1.50	12.11	14.00	1 70	Corn, oats, alfalfa, molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1300
1.44	1.25	11.65	14.00	33 00	Corn, oats, alfalfa, molasses and $\frac{1}{4}$ of 1% salt.	As certified,	1606
1.52	.....	11.88	.....	33 50			
2.49	2.00	10.34	12.00	34 00	Corn, oats, alfalfa meal and molasses.	As certified,	1944
1.74	2.00	10.52	15.00	39 00	Alfalfa, molasses, cracked corn, barley and oats.	As certified,	2283
2.22	2.00	11.16	15.00	1 75	Alfalfa, molasses, cracked corn, barley and oats.	As certified,	1715
1.74	2.00	12.48	15.00	1 85	Alfalfa, molasses, cracked corn, barley and oats.	As certified,	2029
1.90	.....	11.38	.....	37 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	DWIGHT E. HAMLIN, PITTSBURGH, PA.		Per ct.	Per ct.	Per ct.
1802	Hamlin's Quality Feed,	Altoona, E. D. Clark, ..	18.80	8.76	9.00
1649	Hamlin's Quality Feed,	Washington, Charles B. Ruch,	17.25	10.75	9.00
2004	Hamlin's Quality Feed,	California, J. A. Williams,	13.43	9.00	9.00
		Average,	16.49	9.80	.....
1800	H. & S. Horse, Mule and Dairy Feed,	Altoona, E. D. Clark, ..	15.93	15.29	14.00
1497	H. & S. Horse, Mule and Dairy Feed,	Harmony, Harmony Cereal Mill,	16.98	14.68	14.00
		Average,	16.45	14.99	.....
	HOWARD H. HANKS CO., CHICAGO, ILL.				
1713	Kingfalfa Horse Feed,	Philadelphia, Ezl. Dunwoody Co.	16.26	11.15	8.00
1676	Kingfalfa Horse Feed,	Philadelphia, David McMullin, Jr.	14.88	12.45	9.00
1550	Kingfalfa Horse Feed,	New Stanton, James F. Stanton & Sons,	14.51	11.86	9.00
1618	Kingfalfa Horse Feed,	Philadelphia, Walton Brothers,	16.39	11.27	9.00
1744	Kingfalfa Horse Feed,	Philadelphia, W. T. Will, Jr.	16.38	11.53	9.00
		Average,	15.68	11.65	.....
	CHARLES HIEBER & CO., PHILADELPHIA, PA.				
1619	Mixed Feed,	Philadelphia, Charles Hieber & Co.	16.04	11.27	.....
	THE H-O COMPANY, BUFFALO, N. Y.				
1762	The H-O Co.'s Horse Feed with Alfalfa,	Condersport, Eulalia Mills,	13.88	12.63	11.00
	J. H. HORNBY & SON, NEW BRIGHTON, PA.				
1413	Hornby's Meadow Feed,	New Brighton, J. H. Hornby & Son,	16.80	12.90	10.00
1395	Hornby's Meadow Feed,	Rochester, Rochester Seed & Supply Co.	13.54	13.13	10.00
		Average,	15.17	13.02	.....
	ILLINOIS FEED MILLS, BUFFALO, N. Y.				
1741	O. K. Feed with Molasses,	Philadelphia, Max Supowitz,	17.74	8.86	9.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.89	Per ct. 2.00	Per ct. 12.07	Per ct. 10.00	35 00	Corn, oats, alfalfa and cane syrup.	Corn, oats, alfalfa, cane syrup and trace of ground screenings.	1802
2.47	2.00	11.92	10.00	1 85	Corn, oats, alfalfa and cane syrup.	As certified,	1649
2.08	2.00	12.29	10.00	1 80	Corn, oats, alfalfa and cane syrup.	As certified,	2004
2.15	.....	12.09	.....	36 00			
3.44	3.50	10.41	16.00	29 00	Crushed flaxseed meal, old process oil meal, alfalfa meal, dried brewers' and distillers' grains, pure cane syrup and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, brewers' dried grains, malt sprouts, distillers' dried grains, cane syrup and salt.	1800
3.43	3.50	12.34	16.00	1 60	Crushed flaxseed meal, old process oil meal, alfalfa meal, dried brewers' and distillers' grains, pure cane syrup and $\frac{1}{2}$ of 1% salt.	As certified,	1497
2.44	.....	11.37	.....	30 50			
2.21	2.00	13.10	12.00	31 50	Alfalfa meal, cracked corn, oats and syrup.	As certified,	1713
2.42	2.00	12.58	15.00	31 00	Alfalfa meal, cracked corn, oats and syrup.	Alfalfa meal, cracked corn, oats, syrup and barley. Sample mouldy and damaged.	1676
2.00	2.00	14.00	15.00	1 85	Alfalfa meal, cracked corn, oats and syrup.	As certified,	1550
2.09	1.00	12.66	15.00	31 50	Alfalfa meal, cracked corn, oats and syrup.	As certified,	1618
2.39	2.00	12.12	15.00	1 65	Alfalfa meal, cracked corn, oats and syrup.	As certified,	1744
2.22	... ..	13.09	.....	32 80			
3.27	.....	8.30	.....	34 00	Cracked corn, bran, rolled oats, and molasses.	Cracked corn, wheat bran, barley, oats, molasses and small amount whole weed seeds.	1619
1.74	3.00	10.20	12.00	1 75	Alfalfa meal, molasses, wheat middlings, ground corn, corn gluten feed, oat shorts and salt $\frac{1}{2}$ of 1%.	Alfalfa meal, molasses, wheat middlings, ground corn, corn gluten feed, oat shorts, salt and meal mites. Sample mouldy and damaged.	1762
0.71	0.50	15.32	26.00	1 40	Alfalfa meal and molasses.	As certified,	1413
0.52	0.50	17.89	26.00	1 45	Alfalfa meal and molasses.	As certified,	1395
0.62	.....	16.60	.....	1 43			
1.58	1.50	11.04	12.00	1 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1741

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1464	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN. International Dan Patch Horse Feed,	Uniontown, King Bros.,	Per ct. 17.27	Per ct. 10.75	Per ct. 9.00
2408	International Dan Patch Horse Feed,	Easton, F. C. Williams,	13.78	13.20	9.00
		Average,	15.52	11.98	.....
1792	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Badger Evergreen Feed,	Sunbury, Blank & Gottshall.	19.24	10.55	12.00
1790	Badger Horse Feed,	Sunbury, Blank & Gottshall.	18.40	11.28	10.00
2138	Badger Horse Feed,	Wellshoro, Equity Co-Operative Exchange.	14.18	11.76	10.00
1515	Badger Horse Feed,	West Point, L. W. Mat-tern.	19.38	10.26	10.00
2016	Badger Horse Feed,	Leola, H. M. Stauffer,	17.37	10.99	10.00
1342	Badger Horse Feed,	Allentown, A. T. Stover Estate.	16.98	10.48	10.00
		Average,	17.26	10.95	.....
2403	Cream City Horse Feed,	Homer City, T. K. George.	16.30	10.34	10.00
1990	Cream City Horse Feed,	Fredericktown, Keystone Mills Co.	15.89	11.18	10.00
1500	Cream City Horse Feed,	Harmony, S. D. Kirker.	15.88	9.47	10.00
		Average,	16.02	10.33	.....
1823	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Harteno Horse Feed,	Oil City, Oil City Milling Co.	12.57	10.75	10.94
1827	J. H. LAVERY, FRANKLIN, PA. Franklin Horse Feed,	Franklin, J. H. Lavery,	11.73	10.75	10.00
2061	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA. Holly-O Pure Cane Molasses Horse and Mule Feed.	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.	8.60	19.06	17.00
1885	THE NEW OXFORD PURE FEED CO., NEW OXFORD, PA. Ox-O Pure Cane Molasses Horse and Mule Feed.	New Oxford, The New Oxford Pure Feed Co.	8.74	15.81	17.00
177	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Pure-Mo-Lene Horse Feed,	Yeagertown, J. M. Yeager.	15.31	10.11	9.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.65	Per ct. 3.00	Per ct. 12.41	Per ct. 15.00	1 75	Oats, barley, cracked corn, ground alfalfa, cane molasses and salt.	As certified,	1464
2.05	3.00	16.93	15.00	1 70	Oats, barley, cracked corn, ground alfalfa, cane molasses and salt.	Oats, cracked corn, ground alfalfa, cane molasses and salt.	2408
2.35	.....	14.67	.....	1 73			
0.73	0.50	19.97	30.00	1 50	Alfalfa, molasses and salt.	As certified,	1792
1.70	2.00	12.05	12.00	1 75	Corn, oats, alfalfa, molasses and salt.	As certified,	1790
2.17	2.00	10.63	12.00	1 90	Corn, oats, alfalfa, molasses and salt.	As certified,	2198
1.87	2.00	11.33	12.00	33 00	Corn, oats, alfalfa, molasses and salt.	As certified,	1515
1.93	2.00	11.05	12.00	36 00	Corn, oats, alfalfa, molasses and salt.	As certified,	2016
1.79	2.00	12.68	12.00	33 00	Corn, oats, alfalfa, molasses and salt.	As certified,	1342
1.89	.....	11.56	.....	35 00			
2.01	1.25	11.51	14.00	1 85	Alfalfa meal, molasses, corn, oats and salt.	As certified,	2403
1.82	1.50	11.71	14.00	1 80	Alfalfa meal, molasses, corn, oats and salt.	As certified,	1990
1.83	1.50	13.03	14.00	1 75	Alfalfa meal, molasses, corn, oats and salt.	As certified,	1500
1.89	.....	12.08	.....	1 80			
3.76	4.59	5.54	6.35	1 90	Corn, bran, oats and molasses.	Corn, oats, wheat bran and molasses, meal mites present, damaged and musty.	1823
4.92	4.00	6.71	9.00	1 95	Crimped oats, cracked corn, wheat bran and molasses.	As certified,	1827
4.93	4.50	8.06	9.00	34 00	Recleaned whole oats, corn, new process linseed meal, cottonseed meal, wheat middlings, brewers' grains, malt sprouts, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2061
5.22	4.50	9.97	9.00	1 65	Recleaned whole oats, corn, new process linseed meal, cottonseed meal, wheat middlings, brewers' grains, malt sprouts, malt grains, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1885
3.00	2.00	11.19	12.00	36 00	Cracked corn, crushed oats, whole oats, ground alfalfa, molasses and salt $\frac{1}{2}$ of 1%.	As certified,	1776

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1777	Pure Vim-O-Lene Horse Feed,	Yeagertown, J. M. Yeager.	Per ct. 11.41	Per ct. 10.38	Per ct. 8.00
	OATFALFA MILLING CO., PHILADELPHIA, PA.				
1444	Como Chop with Alfalfa Meal,	West Point, Heebner & Kriebel.	13.96	10.24	9.00
1719	Oatfalfa,	Philadelphia, Wm. J. Koehler.	16.16	9.70	10.00
	OMAHA ALFALFA MILLING CO., OMAHA, NEBR.				
1854	Al-Corn-O Horse Feed,	Berwyn, William H. Fritz.	18.01	11.56	10.00
2301	Al-Corn-O Horse Feed,	Homestead, W. J. Hall,	15.09	12.02	10.00
	Average,		16.55	11.79	.....
1449	Green Meadow Dairy Feed,	Fairchance, Banner Flour Mills.	21.98	11.70	11.00
1373	Green Meadow Dairy Feed,	South Bethlehem, C. C. Lynn & Co.	18.44	11.67	11.00
1602	Green Meadow Dairy Feed,	Philadelphia, W. S. Woodward & Co.	15.81	11.68	11.00
	Average,		18.74	11.68	.....
1450	Omaha Special Horse and Mule Feed,	Fairchance, Banner Flour Mills.	15.74	12.03	10.00
1737	Omaha Special Horse and Mule Feed,	Philadelphia, William J. Brown.	18.94	10.41	10.00
1995	Omaha Special Horse and Mule Feed,	Monessen, J. A. Hagerson,	17.38	10.96	10.00
1610	Omaha Special Horse and Mule Feed,	Philadelphia, William Kolb.	15.91	12.84	10.00
	Average,		16.99	11.56	.....
1681	Peerless Alfalmo Horse Feed,	Philadelphia, H. S. Beaton.	15.24	11.77	10.00
1309	Peerless Alfalmo Horse Feed,	McKeesport, A. Davidson,	15.10	11.33	10.00
1609	Peerless Alfalmo Horse Feed,	Philadelphia, C. G. Hause & Bro.	16.10	11.62	10.00
1666	Peerless Alfalmo Horse Feed,	Philadelphia, Fred L. Lemon.	16.10	11.58	10.00
	Average,		15.63	11.57	.....
1680	Perfection Horse Feed,	Philadelphia, H. S. Beaton.	14.86	12.00	10.00
1607	Perfection Horse Feed,	Philadelphia, C. G. Hause & Bro.	16.32	11.31	10.00
	Average,		15.59	11.66	.....
	THE PARK & POLLARD CO., BOSTON, MASS.				
1388	The Park & Pollard Co. Horse Feed,	Quakertown, H. H. Bean,	16.27	10.69	9.00
1682	The Park & Pollard Co. Horse Feed,	Philadelphia, Shaw Bros.,	17.48	11.96	9.00
	Average,		16.87	11.33	.....
	M. C. PETERS MILL CO., OMAHA, NEBR.				
1454	Peters' Arab Horse Feed,	South Brownsville, C. D. Chamberlain.	16.01	10.96	9.00

FEEDING STUFFS COLLECTED IN 1916.—Continued

Fat.		Fiber.		Price per ton or ewt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.93	Per ct. 2.00	Per ct. 5.48	Per ct. 9.00	40 00	Crushed oats, cracked corn, corn feed meal, wheat bran, molasses and salt $\frac{3}{4}$ of 1%.	Crushed oats, cracked corn, corn feed meal, wheat bran, molasses and salt. Meal mites and weevils present. Damaged.	1777
3.33	1.50	10.90	12.00	1 65	Corn, oats, molasses and alfalfa meal.	As certified,	1444
2.63	3.00	11.48	9.00	1 75	Corn, oats, molasses, alfalfa and salt.	As certified,	1719
1.69	2.00	11.03	12.00	1 90	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses. Weevils present.	1854
2.06	2.00	12.49	12.00	2 00	Corn, oats, alfalfa meal and molasses.	As certified,	2301
1.88	.....	11.76	.....	1 95			
0.54	1.00	17.19	25.00	1 60	Alfalfa meal and syrup.	As certified,	1449
0.70	1.00	16.82	25.00	30 00	Alfalfa meal and syrup.	As certified,	1373
0.79	1.00	17.25	25.00	29 00	Alfalfa meal and syrup.	As certified,	1602
0.68	.....	11.08	.....	30 33			
1.31	2.00	14.13	12.00	1 75	Corn, oats, alfalfa meal and molasses.	As certified,	1450
1.91	2.00	12.20	12.00	1 70	Corn, oats, alfalfa meal and molasses.	Corn, oats, barley, alfalfa meal and molasses.	1737
1.67	2.00	12.56	12.00	1 85	Corn, oats, alfalfa meal and molasses.	As certified,	1935
1.55	2.00	11.91	12.00	31 00	Corn, oats, alfalfa meal and molasses.	As certified,	1610
1.61	.....	11.70	.....	34 25			
1.92	2.00	11.65	12.00	1 80	Corn, oats, alfalfa meal and molasses.	Corn, oats, alfalfa meal and molasses. Meal mites and insects present.	1681
2.38	2.00	11.20	12.00	1 75	Corn, oats, alfalfa meal and molasses.	As certified,	1309
2.16	2.00	11.69	12.00	34 00	Corn, oats, alfalfa meal and molasses.	As certified,	1609
1.74	2.00	10.67	12.00	1 75	Corn, oats, alfalfa meal and molasses.	As certified,	1666
2.05	.....	11.30	.....	35 00			
2.52	2.00	9.67	12.00	1 80	Corn, oats, alfalfa meal and molasses.	As certified,	1680
2.03	2.00	10.61	12.00	35 00	Corn, oats, alfalfa meal and molasses.	As certified,	1607
2.28	.....	10.14	.....	35 50			
2.03	2.50	7.01	12.00	1 65	Alfalfa, corn, oats, molasses and salt.	As certified,	1388
1.80	1.00	10.74	12.00	1 75	Alfalfa, corn, oats, molasses and salt.	As certified,	1632
1 92	.....	8.87	.....	1 70			
2.35	2.00	10.56	15.00	1 80	Corn, oats, alfalfa and molasses.	As certified,	1454

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1673	Peters' Arab Horse Feed,	Philadelphia, Estate of S. D. Hunsberger.	Per ct. 14.59	Per ct. 11.91	Per ct. 9.00
1271	Peters' Arab Horse Feed,	Johnstown, Swope Bros.,	14.06	11.90	9.00
		Average,	14.88	11.59	.....
1997	Peters' King Corn,	Monongahela City, D. E. Gamble.	16.07	12.76	9.00
1301	Peters' King Corn,	Pittsburgh, W. N. Gordon & Co.	14.32	11.61	9.00
1733	Peters' King Corn,	Philadelphia, George R. Walton.	17.50	11.38	9.00
		Average,	15.96	11.92	.....
1672	Peters' Rabbit Mule Feed,.....	Philadelphia, Estate of S. D. Hunsberger.	15.22	12.96	9.00
1743	Peters' Rabbit Mule Feed,	Philadelphia, H. M. McVaugh.	15.98	11.03	9.00
		Average,	15.60	12.02	.....
	PRAIRIE STATE MILLING CO., CHICAGO, ILL.				
1996	Emerald Brand Horse Feed,	Monessen, J. A. Hager-son.	15.28	11.16	10.00
	THE QUAKER OATS CO., CHICAGO, ILL.				
2109	Green Cross Horse Mixed Feed with Molasses.	West Chester, I. H. Bailey.	12.88	9.41	10.00
1846	Green Cross Horse Mixed Feed with Molasses.	Paoli, Edward F. Bracken	14.76	10.09	10.00
1954	Green Cross Horse Mixed Feed with Molasses.	New Castle, S. J. Chambers.	15.25	8.99	10.00
2006	Green Cross Horse Mixed Feed with Molasses.	Belle Vernon, H. R. Cru-shore.	13.92	10.01	10.00
2216	Green Cross Horse Mixed Feed with Molasses.	Spangler, E. F. Dumm.	13.99	9.36	10.00
1879	Green Cross Horse Mixed Feed with Molasses.	Coatesville, J. T. Gay & Son.	15.72	9.47	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Cheulst's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.28	2.00	10.15	15.00	36 00	Corn, oats, alfalfa and molasses.	As certified,	1673
2.33	2.00	10.97	15.00	1 80	Corn, oats, alfalfa and molasses.	As certified,	1271
2.32	.....	10.56	.....	36 00			
1.67	1.50	14.27	18.00	1.80	Corn, oats, alfalfa and molasses.	As certified,	1997
2.30	1.50	11.45	18.00	1 70	Corn, oats, alfalfa and molasses.	As certified,	1301
1.70	1.50	11.56	18.00	33 00	Corn, oats, alfalfa and molasses.	Corn, oats, alfalfa, molasses and trace of barley.	1733
1.89	.....	12.42	.....	34 33			
1.85	1.50	14.74	18.00	29 50	Corn, oats, alfalfa and molasses.	As certified,	1672
3.61	1.50	13.28	18.00	1 70	Corn, oats, alfalfa and molasses.	As certified,	1748
2.73	.....	14.01	.....	31 75			
2.20	2.00	13.47	12.00	1 85	Ground corn, oats, barley, alfalfa meal and molasses.	As certified,	1996
2.51	2.50	11.96	12.00	38 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat meal mill by-product, (oat middlings, oat hulls, oat shorts) and $\frac{1}{2}$ of 1% salt.	2100
2.24	2.50	13.94	12.00	1 80	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt. Damaged, meal mites present.	1846
2.37	2.50	12.32	12.00	1 70	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	1954
2.34	2.50	12.43	12.00	1.90	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2006
2.51	25.0	11.92	12.00	2 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2216
1.46	2.50	12.35	12.00	.....	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	1879

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2405	Green Cross Horse Mixed Feed with Molasses.	Homer City, T. K. George.	Per ct. 14.65	Per ct. 9.65	Per ct. 10.00
1538	Green Cross Horse Mixed Feed with Molasses.	Latrobe, K. & L. Golde,	18.10	10.49	10.00
1874	Green Cross Horse Mixed Feed with Molasses.	Coatesville, Handwork Brothers.	16.41	8.98	10.00
1441	Green Cross Horse Mixed Feed with Molasses.	Chalfonte, F. D. Hartzel's Sons.	14.79	10.53	10.00
1747	Green Cross Horse Mixed Feed with Molasses.	Philadelphia, John Kunberger.	16.55	11.33	10.00
2337	Green Cross Horse Mixed Feed with Molasses.	Scranton, C. P. Matthews & Sons, Inc.	12.70	10.42	10.00
1321	Green Cross Horse Mixed Feed with Molasses.	Vandergrift, T. J. Rowley.	16.44	11.03	10.00
2049	Green Cross Horse Mixed Feed with Molasses.	Clarion, A. C. Snyder & Son.	14.20	10.31	10.00
1487	Green Cross Horse Mixed Feed with Molasses.	Perkasie, Edwin F. Stover.	15.96	10.59	10.00
1679	Green Cross Horse Mixed Feed with Molasses.	Philadelphia, Walton Brothers.	15.02	10.15	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.48	Per ct. 2.50	Per ct. 11.60	Per ct. 12.00				
				1 85	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts.)	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2405
2.39	2.50	10.66	12.00	1 65	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified,	1538
1.56	2.50	12.09	12.00	1 80	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt. Damaged.	1874
2.19	2.50	11.55	12.00	1 70	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts.)	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat middlings, oat shorts, oat hulls and small amount whole weed seeds.	1441
2.63	2.50	15.03	12.00	1 70	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts, salt and small amount weed seeds.	1747
2.28	2.50	13.38	12.00	2 15	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	As certified,	2337
2.26	2.50	9.90	12.00	1 65	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts.)	Alfalfa meal, ground corn, crushed oats, oat middlings, oat hulls and oat shorts.	1321
2.51	2.50	11.83	12.00	2 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2049
2.62	2.50	10.73	12.00	1 65	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts.)	As certified,	1487
2.37	2.50	13.17	12.00	31 50	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat middlings, oat hulls, oat shorts and salt. Musty and damaged. Meal mites present.	1679

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2265	Green Cross Horse Mixed Feed with Molasses.	Laceyville, A. L. Vander-vort.	Per ct. 14.50	Per ct. 8.97	Per ct. 10.00
2410	Green Cross Horse Mixed Feed with Molasses.	Lebanon, A. M. Weltmer's Sons.	15.64	10.22	10.00
		Average,	15.03	10.44	.....
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
1729	Good Luck Feed with Molasses,	Somerset, H. C. Beerits' Sons.	17.32	9.66	9.00
1710	Good Luck Feed with Molasses,	Philadelphia, Ezl. Dunwoody Co.	16.93	9.70	9.00
1463	Good Luck Feed with Molasses,	Uniontown, King Bros.,	16.26	11.18	9.00
		Average,	16.85	10.18	.....
1712	Protena Horse Feed,	Philadelphia, Ezl. Dunwoody Co.	17.03	9.89	9.00
1664	Protena Horse Feed,	Philadelphia, Sydney Street & Sons.	15.39	10.46	9.00
		Average,	16.21	10.18	.....
1333	Purina Fatena Feed,	Kittanning, William Gates Estate.	16.39	13.15	12.00
1325	Purina Feed with Molasses,	Kittanning, William Gates Estate.	17.12	10.38	8.30
1811	Purina Feed with Molasses,	Williamsport, Gohl & King.	16.76	9.33	9.30
1647	Purina Feed with Molasses,	Smithport, Herzog Milling Co.	17.32	10.45	8.30
1621	Purina Feed with Molasses,	Philadelphia, Charles Lieber & Co.	15.72	11.92	9.30
1911	Purina Feed with Molasses,	Rosemont, Lippincott & Eadie.	17.88	9.86	8.30
1294	Purina Feed with Molasses,	Johnstown, A. F. Stutzman & Co.,	16.52	10.52	8.30
1742	Purina Feed with Molasses,	Philadelphia, Meyer Supowitz.	18.84	9.26	9.30

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.71	Per ct. 2.50	Per ct. 11.99	Per ct. 12.00	1 95	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts salt and trace small whole weed seeds.	2265
2.67	2.50	11.62	12.00	2 00	Alfalfa meal, ground corn, crushed oats, molasses, cottonseed meal, oat meal mill by-product, (oat middlings, oat hulls, oat shorts), and $\frac{1}{2}$ of 1% salt.	Alfalfa meal, ground corn, crushed oats, molasses, oat middlings, oat hulls, oat shorts and salt.	2410
2.34	.....	12.14	.....	36 44			
1.67	1.50	13.82	12.00	1 85	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1729
2.24	1.50	12.13	12.00	32 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	Cracked corn, oats, ground alfalfa, molasses and salt. Meal mites present.	1710
2.10	1.50	12.46	12.00	1 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1463
2.00	.....	12.80	.....	34 67			
2.69	1.50	13.12	12.00	30 50	Cracked corn, whole oats, ground alfalfa, molasses and 1% salt.	As certified,	1712
2.00	1.50	13.39	12.00	31 00	Cracked corn, whole oats, ground alfalfa, molasses and 1% salt.	Cracked corn, whole oats, ground alfalfa, molasses and salt. Meal mites present.	1664
2.30	.....	13.25	.....	30 75			
2.70	3.00	8.41	10.00	1 65	Molasses, cottonseed meal, ground grain screenings, alfalfa meal, ground corn, humus and salt.	As certified,	1333
2.35	1.70	7.92	11.70	1 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1335
2.43	1.70	9.35	11.70	1 85	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1811
2.33	1.70	8.96	11.70	1 90	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	Cracked corn, oats, ground alfalfa, molasses and salt. Meal mites present.	1647
2.27	1.70	9.44	11.70	1 70	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1621
1.88	1.70	8.55	11.70	36 00	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1911
2.36	1.70	8.97	11.70	1 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1294
2.13	1.70	10.21	11.70	1 75	Cracked corn, oats, ground alfalfa, molasses and 1% salt.	As certified,	1742

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1604	Purina Feed with Molasses,	Philadelphia, A. White & Son.	Per ct. 16.73	Per ct. 9.85	Per ct. 9.30
		Average,	17.11	10.20	.....
2116	THE SHEETS ELEVATOR CO., CLEVELAND. Diamond Horse Feed,	Erie, Erie Milling & Supply Co.	12.63	10.23	8.50
1623	E. L. SHUTE & CO., PHILADELPHIA, PA. Pippin Horse Feed,	Philadelphia, Frank Cock-erill.	15.24	10.40	9.00
1315	J. W. SMITH & CO., PITTSBURGH, PA. Ft Pitt Heavy Grain Horse Feed,	Pittsburgh, David Roble,	18.93	11.31	10.00
1764	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Invincible Alfalfa Feed,	Reynoldsville, Fales Gro-cery Co.	15.24	10.57	10.00
1806	THE UNION GRAIN & FEED CO., ANDERSON, IND. Union Horse Feed,	Altoona, Klepsch Bro-thers.	14.66	11.65	8.50
1624	WALTON BROTHERS, PHILADELPHIA, PA. Corno Chop with Alfalfa Meal,	Philadelphia, George C. Gallagher.	15.52	10.31	9.00
1605	THE WASH-CO. ALFALFA MILLING CO., FT. CALHOUN, NEBR. Alfalfa Strong Horse Feed,	Philadelphia, Charles H. Longcoke.	15.77	12.08	9.00
1711	Alfalfagreen,	Philadelphia, Ezl. Dun-woody Co.	17.28	12.05	10.00
1600	Butler's Special Horse Feed,	Philadelphia, A. H. Beck,	17.68	11.56	10.00
1601	Nebraska Horse Feed,	Philadelphia, A. H. Beck,	16.59	11.57	9.00
1736	Nebraska Horse Feed,	Philadelphia, Albert Clay	16.72	11.16	9.00
1665	Nebraska Horse Feed,	Philadelphia, R. Gilmore,	14.94	12.43	8.00
1626	Nebraska Horse Feed,	Philadelphia, Polin Bro-thers.	17.56	11.89	8.00
		Average,	16.45	11.76	.....
1738	Peacock Horse Feed,	Philadelphia, Ezl. Dun-woody Co.	17.11	10.96	10.00
1713	Rix-O-Fat,	Philadelphia, J. F. Con-nor.	16.59	10.24	10.00
1746	Sweet Meal,	Philadelphia, W. T. Will, Jr.	17.54	12.98	.....
1496	THE WESTERN GRAIN PRODUCTS CO., HAMMOND, IND. Hammond Horse Feed,	Evans City, George Ifft & Son.	11.07	15.06	12.00
1276	Chicago Alfalfa Horse and Mule Feed,	Johnstown, G. Bostert & Son.	13.25	12.81	10.00
2103	Chicago Alfalfa Horse and Mule Feed,	Linesville, Linesville Mill-ing Co.	13.73	13.60	10.00
		Average	13.49	13.20	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.74	1.70	9.06	11.70	33 00	Cracked corn, oats, ground alfalfa, molasses and 1 per cent. salt.	As certified,	1604
2.31	.....	9.05	.....	35 38			
3.88	3.75	8.17	9.00	2 10	Corn, oats, oat feed and molasses.	Corn, oats, oat midlings, oat hulls, malt sprouts, molasses and trace small whole weed seeds.	2116
1.77	1.50	10.27	15.00	30 00	Alfalfa meal, corn, oats and molasses.	As certified,	1623
1.72	2.00	11.05	15.00	1 75	Corn, oats, alfalfa, flavored with syrup.	As certified,	1315
2.55	2.00	9.11	12.00	35 00	Corn, oats, alfalfa meal and molasses.	As certified,	1764
3.04	2.50	9.84	11.00	1 80	Molasses, alfalfa, corn and oats.	As certified,	1806
2.27	1.50	9.60	12.09	32 00	Corn, oats, molasses and alfalfa meal.	As certified,	1624
1.36	2.00	11.80	25.00	33 00	Corn, oats, alfalfa and molasses.	As certified,	1605
0.81	0.50	17.72	25.00	28 09	Alfalfa and molasses,	As certified,	1711
1.50	2.00	10.18	15.00	1 65	Corn, oats and alfalfa flavored with syrup.	Corn, oats, barley, alfalfa and syrup.	1600
1.87	1.50	11.43	20.00	1 65	Corn, alfalfa and molasses.	As certified,	1601
1.57	1.25	12.70	20.00	1 65	Corn, alfalfa and molasses.	As certified,	1736
1.63	1.50	15.16	15.00	33 00	Corn, alfalfa and molasses.	As certified,	1655
1.52	1.50	10.84	15.00	30 00	Corn, alfalfa and molasses.	As certified,	1626
1.65	.....	12.53	.....	32 25			
1.95	2.00	12.48	15.00	30 50	Corn, oats, alfalfa and molasses.	As certified,	1738
2.53	1.00	11.89	25.00	1 70	Alfalfa and molasses,	Corn, oats, barley, alfalfa and molasses.	1718
0.78	.....	17.81	.....	1 50	Alfalfa and molasses,	As certified,	1746
3.81	2.80	9.05	11.00	1 60	Crushed corn, rolled oats, ground barley screenings, malt sprouts, linseed meal, molasses and salt.	Crushed corn, rolled oats, ground barley screenings, malt sprouts, molasses, salt and small amount small whole weed seeds.	1496
2.71	2.50	11.80	13.00	33 00	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses and salt.	Crushed corn, rolled oats, wheat, barley, alfalfa meal, linseed meal, molasses and salt.	1276
2.09	2.50	13.50	15.00	1 75	Crushed corn, rolled oats, alfalfa meal, linseed meal, molasses and salt.	As certified,	2103
2.40	.....	12.65	.....	34 00			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	JOHN C. WILSON, PHILADELPHIA, PA.		Per ct.	Per ct.	Per ct.
1740	Wilson's Molasses Feed,	Philadelphia, Robert McCracken.	16.14	10.61	... ..
	W. S. WOODWARD & CO., PHILADELPHIA, PA.				
1603	U. T. Horse Feed,	Philadelphia, W. S. Woodward & Co.	15.76	10.28	.....
	XTRAVIM MOLASSES FEED CO., BOSTON, MASS.				
2163	Xtra-Vim Feed,	Westfield, H. Z. Pride & Son.	18.33	6.15	3.50
	Xtra-Vim Feed,				
2359	Xtra-Vim Feed,	Hawley, Ernest Vogler,...	19.06	4.48	3.50
		Average,	18.69	5.32	.....
	PROPRIETARY CALF MEALS.				
	THE BLATCHFORD CALF MEAL FACTORY, WAUKEGAN, ILL.				
2040	Blatchford's Calf Meal,	Brookville, Kline's Sifter Mills.	8.75	27.19	24.00
	THE CLOVER LEAF MILLING CO., BUFFALO, N. Y.				
1371	Clover Leaf Calf Meal,	Mapleton, H. O. Andrews,	9.81	26.06	25.00
	INTERNATIONAL STOCK FOOD CO., MINNEAPOLIS, MINN.				
2148	International Grofast Calf Meal,	Troy, Farmers' & Consumers' Commercial Union.	9.98	28.00	25.00
	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA.				
2059	Holly-O Pure Calf Meal,	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.	8.89	25.69	25.00
	THE QUAKER OATS CO., CHICAGO, ILL.				
1275	Schumacher Calf Meal,	Johnstown, G. Bostert & Son.	8.82	19.31	19.09

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.25	.....	11.52	.....	1 65	.....	Mouldy corn, oats, alfalfa and molasses.	1740
3.64	.....	5.94	.....	36 00	Green meadow dairy feed, rolled oats, cracked corn and $\frac{1}{2}$ of 1% salt.	Rolled oats, cracked corn, alfalfa meal, molasses and salt.	1603
0.51	0.50	5.27	6.50	2 25	Pure cane sugar molasses mixed with a small percentage of sphagnum moss and dehydrated forming a dry, concentrated feed.	As certified,	2163
0.62	0.50	5.39	6.50	2 00	Pure cane sugar molasses mixed with a small percentage of sphagnum moss and dehydrated forming a dry, concentrated feed.	As certified,	2359
0.57	.....	5.33	.....	2 13			
6.65	5.60	7.27	6.75	55 00	Locust bean meal, unpressed flaxseed, wheat flour, blood flour, barley meal, ground beans and peas, rice polish, old process oil meal, cocoa shell meal, cocoanut meal, re-cleaned cottonseed meal, foenugreek, dried milk, anise and salt.	As certified,	2040
5.42	6.00	7.19	7.00	3 20	Pulverized malt flour, wheat flour, linseed meal, cocoa shell meal, cottonseed meal and $\frac{1}{2}$ of 1% salt.	As certified,	1371
6.39	5.00	8.69	10.00	3 00	Foenugreek seed, locust bean, linseed oil meal, cleaned grain screenings and reddog flour.	As certified,	2148
5.13	5.50	5.80	6.50	2 50	Linseed meal, cottonseed meal, wheat middlings, pulverized malt, sugar and $\frac{1}{2}$ of 1% salt.	As certified,	2 00
8.76	8.00	2.39	3.00	3 25	Oatmeal, wheatmeal, ground flaxseed, dried casein, cottonseed meal and $\frac{1}{2}$ of 1% bicarbonate of soda.	As certified,	1275

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2258	Schumacher Calf Meal,	Towanda, F. H. Hagerman.	Per ct. 8.38	Per ct. 18.88	Per ct. 18.00
1525	Schumacher Calf Meal,	Souderton, Moyer & Son,	8.05	19.06	19.00
		Average,	8.41	19.08	.....
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
1329	Purina Calf Meal,	Kittanning, William Gates Estate.	10.68	34.13	33.00
1755	Purina Calf Meal,	Port Allegany, Port Allegany Milling Co.	11.44	33.38	33.00
		Average,	11.06	33.76	.....
	RYDE & CO., CHICAGO, ILL.				
1284	Ryde's Cream Calf Meal,	Windber, Claude Davis, ..	12.89	25.13	25.00
1819	Ryde's Cream Calf Meal,	Montoursville, Herman Keebler,	10.88	26.19	25.00
1555	Ryde's Cream Calf Meal,	Phillipsburg, J. O. Reed,	11.92	25.31	25.00
2031	Ryde's Cream Calf Meal,	DuBois, Timlin, Kelly Co.	11.11	25.00	25.00
		Average,	11.70	25.41	.....
	PROPRIETARY SWINE FEEDS.				
	AMERICAN MILLING CO., PEORIA, ILL.				
1705	Sucrene Hog Meal,	Howard, W. H. Long, ..	11.06	16.45	16.00
1891	Sucrene Hog Meal,	Gettysburg, J. W. McIlhenny.	12.47	18.50	16.00
		Average,	11.76	17.48	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.67	Per ct. 8.00	Per ct. 2.96	Per ct. 4.00	4 00	Oatmeal, wheatmeal, ground flaxseed, milk albumin, cottonseed meal and $\frac{1}{2}$ of 1% bi-carbonate of soda.	As certified,	2253
8.64	8.00	2.58	3.00	3 50	Oatmeal, wheatmeal, ground flaxseed, dried casein, cottonseed meal and $\frac{1}{2}$ of 1% bi-carbonate of soda.	As certified,	1525
8.48	.....	2.64	.....	3 58			
4.99	4.00	3.42	3.50	3 50	Blood flour, hominy feed, linseed meal and wheat flour.	As certified,	1329
3.69	4.00	3.39	3.50	3 50	Blood flour, hominy feed, linseed meal and wheat flour.	As certified,	1755
4.34	.....	3.40	.....	3 50			
5.41	5.00	6.39	6.00	3 50	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa meal and trace of salt.	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa shell meal and trace of salt.	1284
5.43	5.00	5.57	6.00	3 75	Ground flaxseed, wheat flour, locust bean meal, re-cleaned cottonseed meal, blood flour, beans and lentils, cocoa shell meal foenugreek, anise and salt.	As certified,	1819
5.40	5.00	6.64	6.00	3 75	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa meal and trace of salt.	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa shell meal and trace of salt.	1553
5.03	5.00	5.78	6.00	3 80	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa meal and trace of salt.	Carob beans, flaxseed, wheat flour, cottonseed meal, beans and lentils, foenugreek, anise, cocoa shell meal and trace of salt.	2031
5.32	.....	6.10	.....	3 70			
7.00	5.00	6.99	10.00	1 75	Molasses, ground and bolted grain screenings, corn meal, corn gluten feed, linseed meal and salt.	As certified,	1705
2.77	5.00	7.62	10.00	1 65	Molasses, ground and bolted grain screenings, corn feed meal, corn gluten feed linseed meal, soluble blood flour and salt.	As certified,	1891
4.89	.....	7.30	.....	1 70			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	CORN PRODUCTS REFINING CO., NEW YORK, N. Y.		Per ct.	Per ct.	Per ct.
1397	Diamond Hog Meal,	Rochester, Rochester Seed & Supply Co.	9.05	25.75	20.00
	JOHN W. ESHELMAN, LANCASTER, PA.				
2015	Eshelman's Hog Meal,	Lancaster, John W. Eshel- man.	11.92	16.69	16.00
	INTERNATIONAL SUGAR FEED CO., MINNEAPOLIS, MINN.				
1722	Interuational Climax Hog Feed,	Somerset, Saylor & Woy,	10.75	17.00	16.00
	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA.				
2062	Holly-O Pure Cane Molasses Swine Feed.	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.	8.95	23.13	20.00
	THE NEW OXFORD PURE FEED CO., NEW OXFORD, PA.				
1886	Ox-O Pure Cane Molasses Swine Feed,	New Oxford, The New Oxford Pure Feed Co.	9.56	21.38	20.00
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
1330	Purina Pig Feed,	Kittanning, William Gates Estate.	15.56	13.39	14.00
	PROPRIETARY CHOP FEEDS.				
	J. J. BADENOCH CO., CHICAGO, ILL.				
1654	Badenoch's C. & O. Chop,	Washington, C. S. Hunter Co.	10.32	11.06	9.00
	THE BUCKEYE CEREAL CO., MAS- SILLON, OHIO.				
1833	Buckeye Chop Feed,	St. Marys, Hall, Kaul & Hyde.	9.24	7.94	9.00
	BUFFALO CEREAL CO., BUFFALO, N. Y.				
1895	Bufceco Chop Feed,	Malvern, Thomas, Haines Co.	11.73	8.81	8.00
	CENTRE HALL FLOURING MILLS, CENTRE HALL, PA.				
2226	Keystone Chop,	Altoona, H. H. Langdon,	11.18	12.56	11-12
	GLOBE ELEVATOR CO., BUFFALO, N. Y.				
1763	No. 1, Chop Feed,	Lindsey Station, S. P. Bernstein.	10.93	8.63	7.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 8.41	Per ct. 9.00	Per ct. 8.66	Per ct. 13.00	1 50	Corn oil cake meal,	As certified,	1397
5.45	5.00	6.17	4.50	37 00	Ten per cent digester tankage, ground corn, ground rye, ground grain screenings, wheat middlings and charcoal.	As certified,	2015
6.40	5.00	14.49	14.00	1 50	Ground barley, ground wheat, ground oats, ground grain screenings and tankage.	As certified,	1722
4.61	4.50	6.92	6.50	36 00	New process linseed meal, cottonseed meal, gluten, wheat middlings, wheat bran, ground corn, pulverized malt, malt sprouts, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	2062
5.60	4.50	6.87	5.50	1 75	Linseed meal, cottonseed meal, gluten, wheat middlings, wheat bran, ground corn, brewers' grains, malt sprouts, pure cane molasses and $\frac{1}{2}$ of 1% salt.	As certified,	1836
2.91	2.00	8.19	10.00	1 65	Corn feed meal, alfalfa molasses, humus or peat and 1% salt.	As certified,	1330
4.75	3.00	6.30	12.00	1 60	Ground corn, corn feed meal, oat feed, oat hulls and hominy feed.	Ground corn, corn feed meal, oat middlings, oat hulls and hominy feed.	1654
3.76	3.00	14.20	14.00	1 75	Ear corn, corn, oat meal mill by-product (oat middlings, oat hulls, oat shorts) grain screenings, low grade flour and $\frac{1}{2}$ of 1% salt.	As certified,	1833
3.23	4.00	10.64	9.00	32 00	Ground corn, oats and barley, hominy feed oat shorts and oat hulls.	As certified,	1895
2.89	4-5	6.23	.....	2 00	Pure grain chop,	Oats, barley, rye, wheat bran and middlings with ground screenings and trace weed seeds.	2226
3.07	3.00	8.88	9.00	1 75	Ground corn, Kaffir hulls and oats and oat hulls, flour middlings and salt $\frac{1}{2}$ of 1%.	Ground corn, oats, oat hulls, flour middlings and salt.	1783

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1557	No. 1 Chop Feed,	Phillipsburg, Centre Milling Co.	Per ct. 9.65	Per ct. 9.00	Per ct. 7-9
2190	No. 1 Chop Feed,	Wellsboro, Equity Co-Operative Exchange.	10.21	10.75	7-9
2151	No. 1 Chop Feed,	Troy, H. M. Spalding & Son.	10.64	9.81	7-9
	J. F. HOGSETT & SON, UNION-TOWN, PA.	Average,	10.36	9.55	.....
1459	C. Chop,	Uniontown, J. F. Hogsett & Son.	11.75	9.13	8.00
1953	J. H. HORNBLY & SONS, NEW BRIGHTON, PA. Hornby's C. O. & B. Chop Feed,	Ellwood City, J. P. Morrison.	11.27	10.06	10.50
1660	THE IMPERIAL GRAIN & MILLING CO., TOLEDO, OHIO. Premium Chop,	Washington, J. K. Lawson.	10.39	10.38	8.00
2293	JOHN LACHMAN & CO., HAYS, PA. Special C. O. & B. Chop Feed,	Hays, John Lachman & Co.	10.37	10.50	7-9
1285	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Puritan No. 2 Chop,	Windber, L. B. Reeser & Co.	10.25	8.81	7.30
2369	Puritan No. 2, Chop,	Oakdale, J. A. Siorski, ..	8.30	9.81	7.80
		Average,	9.27	9.31	.....
1703	W. H. LONG, HOWARD, PA. Standard Chop,	Howard, W. H. Long, ..	12.22	12.19	8-10
1923	MINER-MILLARD MILLING CO., WILKES-BARRE, PA. No. 1 Chop,	Wilkes-Barre, Miner-Millard Milling Co.	12.49	9.56	10-12
1992	PRAIRIES STATE MILLING CO., CHICAGO, ILL. Prairie State Chop Feed,	Monessen, J. A. Hager-son.	10.22	9.06	8.00
1932	ROBBINS MILLING CO., WILKES-BARRE, PA. A Chop,	Wilkes-Barre, Robbins Milling Co.	12.01	10.50	8-11
1931	B Chop,	Wilkes-Barre, Robbins Milling Co.	11.20	9.25	8-10

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.59	Per ct. 3-5	Per ct. 7.13	Per ct. 9.00	1 60	Ground corn, oats and oat hulls, flour middlings and salt $\frac{1}{2}$ of 1%.	As certified,	1557
4.37	3-5	6.56	9.00	2 00	Ground corn, Kaifir and oats and oat hulls, flour middlings and salt $\frac{1}{2}$ of 1%.	As certified,	2190
3.39	3-5	8.31	9.00	1 80	Ground corn, Kaifir and oats and oat hulls, flour middlings and salt $\frac{1}{2}$ of 1%.	As certified,	2151
3.61	.....	7.72	.....	1 79			
3.46	3.00	6.86	8.00	1 60	Corn, oats and oat hulls.	As certified,	1459
2.86	3.50	10.04	9.00	1 70	Ground: shelled or white corn, barley, oats, oat hulls and reddog flour.	Ground shelled corn, oats, oat hulls and reddog flour.	1953
3.20	3.50	9.40	9.00	1 75	Shelled and ear corn, cottonseed meal, white hominy meal, oat middlings, oat shorts, oat hulls and salt $\frac{1}{4}$ of 1%.	As certified,	1660
4.35	3.5-4 5	6.04	7-9	36 00	Corn, oats, barley, oat middlings, oat groats and oat hulls.	Corn, oats, oat middlings, oat groats and oat hulls.	2293
3.39	3.00	8.48	8.85	1 50	Corn, oats and oat hulls, etc.	Corn, oats, oat hulls and barley.	1285
3.31	3.00	11.56	8.85	40 00	Corn, oats and oat hulls.	As certified,	2369
3.35	.....	10.02	.....	35 00			
3.41	3-4	3.77	9-11	1 80	Corn, oats, rye and wheat midds.	As certified,	1703
2.71	3.5-6	3.68	3-5	2 15	Corn, oats and middlings.	As certified,	1923
3 30	2.50	5.13	9.00	1 75	Ground corn, ground oats, ground barley, ground oat hulls, ground barley screenings and corn feed meal.	As certified,	1392
3.91	3-5	6.70	5-7	.....	Corn, hominy, oats, rye shorts, oat middlings and hulls.	As certified,	1352
4.09	4-5	7 51	6-8	2.05	Corn, hominy, oat middlings and hulls.	As certified,	1931

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's Number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2300	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's C. O. & B. Chop Feed,	Homestead, W. J. Hall,	Per ct. 8.45	Per ct. 8.69	Per ct. 8.00
1702	Camp's Little Wonder Chop Feed,	Lock Haven, Morris L. Claster.	9.73	11.00	9.00
1765	Camp's Little Wonder Chop Feed,	Reynoldsville, Fales Grocery Co.	10.38	11.25	9.00
1651	Camp's Little Wonder Chop Feed,	Washington, Charles B. Ruch.	10.36	10.88	9.00
1840	Camp's Little Wonder Chop Feed,	Ridgway, Smith Brothers Co.	11.21	9.44	9.00
1383	Camp's Little Wonder Chop Feed,	Charleroi, R. C. Mountser.	8.14	7.75	8.00
1446	Camp's Little Wonder Chop Feed,	Connellsville, Dull & Co.,	9.07	10.85	7-8

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.48	Per ct. 4.00	Per ct. 9.32	Per ct. 7.00				
				2 00	White or yellow corn, oats, barley, corn meal mill by-product, (fine meal and siftings) oat meal by-product (oat middlings, oat hulls, oat groats) and $\frac{1}{2}$ of 1% salt.	Corn, oats, corn meal mill by-product, (fine meal and siftings), oat middlings, oat hulls oat groats, salt and small amount ground corn cobs.	2300
3.22	3.50	8.97	9.00	1 65	White or yellow corn, oats, gluten feed, wheat middlings, corn meal mill by-product, (fine meal and siftings), oat meal mill by-product, (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, wheat middlings, corn meal mill by-products, (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	1702
3.71	3.50	10.09	9.00	31 00	White or yellow corn, oats, gluten feed, wheat middlings, corn meal mill by-product, (fine meal and siftings), oat meal mill by-product, (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, wheat middlings, corn meal mill by-products, (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	1765
3.79	3.50	8.23	9.00	1 70	White or yellow corn, oats, gluten feed, wheat middlings, corn meal mill by-product, (fine meal and siftings), oat meal mill by-product, (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, wheat middlings, corn meal mill by-products (fine meal and siftings), oat groats, oat middlings oat hulls, salt and trace whole weed seeds.	1651
2.96	3.50	8.90	9.00	1 75	White or yellow corn, oats, gluten feed, wheat middlings, corn meal mill by-product, (fine meal and siftings), oat meal mill by-product, (oat groats, oat middlings and oat hulls) and $\frac{1}{2}$ of 1% fine salt.	Corn, oats, wheat middlings, corn meal mill by-products, (fine meal and siftings), oat groats, oat middlings, oat hulls and salt.	1840
2.50	4.00	13.02	9.00	1 65	White or yellow corn, oats, corn meal mill by-products, (fine meal and siftings), oat meal by-products, (oat middlings, oat groats, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified,	1983
3.84	3-4	7.47	7-9	31.50	Yellow or white corn, oats, oat middlings, oat groats and oat hulls.	As certified,	1446

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
			Per ct.	Per ct.	Per ct.
1360	Camp's Little Wonder Chop Feed,	Everett, J. & C. Howard,	9.97	11.69	7-8
1314	Camp's Little Wonder Chop Feed, ..	McKeesport, Jeffreys Brothers.	9.43	11.56	7-8
1289	Camp's Little Wonder Chop Feed, . .	Johnstown, Johnstown Milling Co.	10.29	11.06	7-8
		Average,	9.85	10.60	.....
1971	C. Y. WAGNER, BELLEFONTE, PA. Standard Chop,	Bellefonte, C. Y. Wagner,	11.55	11.38	10-12
MISCELLANEOUS CHOP FEEDS.					
CORN CHOPS.					
1686	GLOBE ELEVATOR CO., BUFFALO, N. Y. Corn Meal,	Kane, Swanson Grocery Co.	14.62	9.44	.....
BARLEY CHOPS.					
1452	BARLEY FOODS CO., MORGANTOWN, W. VA Barley Chop,	Fairchance, Banner Flour Mills.	8.60	13.63	.....
CORN AND OAT CHOPS.					
2246	DAYTON MILLING CO., TOWANDA, PA. No. 1 Corn and Oats Chops,	Towanda, Dayton Milling Co.	10.10	10.31	.....
2220	T. M. RIDDLE, ALTOONA, PA. Crescent Corn & Oats Chop,	Altoona, T. M. Biddle,	10.33	10.06	7 50
1981	JOHN FUOSS, BELLWOOD, PA. Corn and Oats Chop,	Bellwood, John Fuoss,	12.01	9.25	.....
1832	GLOBE ELEVATOR CO., BUFFALO, N. Y. Fine Ground Corn & Oats, Half and Half.	St. Marys, Hall, Kaul & Hyde Co.	12.26	11.25	.....
2204	Fine Ground Corn & Oats, Half and Half.	Tioga, J. H. Howe,	10.22	10.31	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.89	Per ct. 3-4	Per ct. 6.93	Per ct. 7-9	1 70	White or yellow corn, oats, corn meal mill by-products, (fine meal and siftings), oat meal by-products, oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified,	1360
3.58	3-4	7.22	7-9	30 00	White or yellow corn, oats, corn meal mill by-products, (fine meal and siftings), oat meal by-products, oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified,	1314
3.59	3-4	8.29	7-9	1 65	White or yellow corn, oats, corn meal mill by-products, (fine meal and siftings), oat meal by-products, oat groats, oat middlings, oat hulls) and $\frac{1}{2}$ of 1% fine salt.	As certified,	1289
3.56	.....	8.79	.....	22 72			
3.70	3-4	3.88	5-7	1 95	Corn, barley, oats and middlings.	As certified,	1971
2.33	.....	1.12	.....	1 75	.....	Corn chop,	1686
4.68	.....	9.72	.....	1 65	.....	Barley and buckwheat middlings.	1452
4.17	.....	4.63	.....	2 25	Made from corn and oats.	Corn, oats and small amount small whole weed seeds.	2246
3.84	2.00	5.55	9.00	2 30	Corn and oats,	Corn, oats and small amount Kaffir corn, ground oyster shells and ground grain screenings.	2220
3 82	.....	2 61	.....	2 10	Corn and oats,	As certified,	1931
4.66	.....	4.63	.....	1 75	.....	Corn and oats,	1832
4.05	.....	5.79	.....	2 25	.....	Corn, oats, small amount ground grain screenings and small amount small whole weed seeds.	2204

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2657	W. S. STUART, CARLISLE, PA. Corn and Oats Chop,	Carlisle, W. S. Stuart, ..	Per ct. 10.94	Per ct. 11.38	Per ct.
	CORN, OATS AND BARLEY CHOPS.	Average,	10.97	10.43	.....
2168	ELKLAND ROLLER MILLS, ELK- LAND, PA. Corn, Oats & Barley Chop,	Elkland, Elkland Roller Mills.	9.74	11.25	.....
	CHOP FEEDS.				
1563	CENTRE MILLING CO., PHILIPS- BURG, PA. Mixed Chop,	Philipsburg, Centre Mill- ing Co.	11.36	12.56	.....
1568	CITY FLOURING MILLS, INC., MUNCY, PA. Rye, Corn and Oats Chop,	Clearfield, J. T. Murphy.	11.00	10.63	9.25
1700	GAMBLE, GHEEN & CO., BELLE- FONTE, PA. Mixed Chop,	Lock Haven, George F. Dietz & Co.	12.23	11.56	11-14
2349	HONESDALE MILLING CO., HONES- DALE, PA. Mixed Chop,	Honesdale, Honesdale Milling Co.	11.14	10.25	10-12
1578	J. A. KOOKER, SELLERSVILLE, PA. Mixed Chop,	Sellersville, J. A. Kooker,	10.05	11.81	.....
1351	M. M. LAUDENSLAGER, MACUN- GIE, PA. Mixed Chop,	Emaus, Laudenslager & Geist.	11.63	11.63	7-12
1937	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Corn and Oats Chop,	Wilkes-Barre, C. P. Matt- hews & Sons, Inc.	10.00	8.44	7-9
2330	Corn and Oats Chop,	Scranton, C. P. Matthews & Sons, Inc.	10.57	11.69	7-9
		Average,	10.23	10.07	.....
1922	MINER-HILLARD MILLING CO., WILKES-BARRE, PA. Mixed Chop,	Wilkes-Barre, Miner-Hil- lard Milling Co.	12.17	8.69	7.00
1548	JAS. F. STANTON & SONS, NEW STANTON, PA. Fresh Ground Chop,	New Stanton, Jas. F. Stanton & Sons.	10.50	10.50	8.00
1979	TYRONE MILLING CO., TYRONE, PA. Corn, Oats and Rye Chop,	Tyrone, Tyrone Milling Co.	10.30	10.88	7-9
	MISCELLANEOUS FEEDS.				
1749	JOHN LUCAS & CO., INC., PHILA- DELPHIA, PA. Flaxseed Meal,	Philadelphia, H. M. Mc- Vaugh.	7.71	18.32	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.90	Per ct.	Per ct. 4.54	Per ct.	1 75	Corn and oats, possibly trace of other whole grains.	Corn, oats and wheat, ..	2057
4.07	.....	4.63	.....	2 07			
4.57	.....	6.60	.....	2 30	Corn, oats and barley	As certified,	2168
3.82	.....	5.20	.....	1 75	Corn, oats and wheat middlings.	Corn, oats, wheat middlings and buckwheat. Sample musty.	1563
4.15	4.06	5.27	5.45	2 00	Rye, corn and oats chop.	As certified,	1568
3.51	3-5	3.47	4.00	1 85	.....	Corn, oats, wheat middlings and trace ground screenings.	1700
3.60	7-9	5.34	3-5	2 30	Corn, oats, oat feed and corn bran.	As certified,	2349
5.45	.....	5.76	.....	1 70	Corn, rye, oats, wheat bran and corn bran.	As certified,	1578
3.99	2-6	5.08	3-10	1 65	Corn, ear corn, rye middlings, hominy feed and oats.	As certified,	1351
6.80	3-5	5.66	6-7	1 85	Corn, oats, hominy and oat hulls.	As certified,	1937
6.07	3-5	5.91	6-7	2 25	Corn, oats, hominy and oat hulls.	As certified,	2330
6.44	.....	5.78	.....	2 05			
2.45	2.00	3.51	7.00	2 05	Corn, wheat middlings and oat hulls.	Corn, wheat middlings, oat hulls and trace whole weed seeds.	1922
2.72	3.00	4.19	8.00	1 40	Corn, oats, oat hulls and wheat screenings.	As certified,	1548
3.58	3-5	5.94	6-8	28 00	Corn, oats, ear corn and rye.	As certified,	1979
38.88	.....	5.45	.....	8 00	.....	Flaxseed meal,	1749

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1948	THE TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Wheat Screenings,	New Castle, Fisher & Men- gle.	Per ct. 11.81	Per ct. 12.06	.....
1398	Wheat Screenings,	Rochester, Rochester Seed & Supply Co.	11.02	13.50	.....
		Average,	11.41	12.78	.....
PROPRIETARY POULTRY FOODS.					
1758	ACME MILLING CO., OLEAN, N. Y. Mixed Chicken Feed,	Coudersport, Gates Brothers.	13.38	9.50	.....
1991	ALFOCORN MILLING CO., EAST ST. LOUIS, ILL. Sunflower Scratch Feed with Grit,	Monessen, J. A. Hagerson	9.59	10.25	10.00
1984	Sunflower Scratch Feed with Grit,	Charleroi, R. C. Mount- ser.	10.63	10.94	10.00
		Average,	10.13	10.60	.....
1724	AMERICAN MILLING CO., PEORIA, ILL. Cluck, Cluck, Scratch Feed—No Grit, ..	Somerset, John G. Emert,	13.09	10.19	10.00
2053	Cluck, Cluck, Scratch Feed—No Grit, ..	Carlisle, W. S. Stewart,	12.13	11.19	10.00
		Average,	12.61	10.69	.....
1752	Sucrene Chick Feed with Grit,	Emporium, Emporium Milling Co.	13.31	10.44	10.00
1510	Sucrene Poultry Mash,	Butler, H. J. Klingler & Co.	9.73	20.81	18.00
1399	J. J. BADENOCH COMPANY, CHICAGO, ILL. C-Er-Lay Poultry Feed—No Grit,	Rochester, Rochester Seed & Supply Co.	12.10	10.69	9.50
1415	C-Er-Lay Dry Mash,	New Brighton, M. H. Stager.	10.21	12.75	12.00
1889	BLANBERG BROTHERS, INC., BALTIMORE, MD. Cornell Brand Pigeon Feed No. 3,	New Oxford, John H. Dut- tera.	12.91	15.06	18.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
2.63	.....	3.89	.....	1 85	.....	Wheat screenings with large amount whole weed seeds.	1948
2.82	.....	3.89	.....	1 65	.....	Wheat screenings with large amount whole weed seeds.	1398
2.73	.....	3.89	.....	1 75			
2.44	.....	2.62	.....	2 00	.....	Corn, oats, barley, wheat, Kaffir corn, buckwheat, sunflower seed and small amount whole weed seeds.	1758
2.89	2.50	2.57	8.50	2 30	Corn, wheat Kaffir corn, or milo, oats, grit (carbonate of lime) and sunflower seed.	Corn, wheat, Kaffir corn or milo, oats, grit, (carbonate of lime) barley, sunflower seed and small amount whole weed seeds.	1991
3.21	2.50	2.60	6.50	2 00	Corn, wheat, Kaffir corn, or milo, oats, grit (carbonate of lime) and sunflower seed.	Corn, wheat, Kaffir corn or milo, oats, grit, and carbonate of lime).	1984
3.05	.....	2.58	.....	2 15			
3.39	2.50	2.69	5.00	2 25	Corn, wheat, barley, Kaffir corn, sunflower seed and buckwheat.	As certified,	1724
2.69	2.50	2.09	5.00	2 30	Corn, wheat, barley Kaffir corn, sunflower seed and buckwheat.	As certified,	2053
3.04	.....	2.39	.....	2 28			
3.23	2.50	2.42	5.00	2 25	Corn, Kaffir corn, wheat, millet and marble grit.	Corn, Kaffir corn, wheat millet, marble grit and small amount small whole weed seeds.	1752
6.49	4.50	7.09	9.00	2.00	Alfalfa meal, linseed meal, corn meal, meat scraps, wheat bran, corn gluten feed, ground and bottled grain screenings	As certified,	1510
3.43	2.50	2.72	5.00	2.00	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed, milo maize and not over 1% charcoal.	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed milo maize, charcoal and small amount whole weed seeds.	1399
5.11	2.50	5.46	9.00	3.00	Bran, corn feed meal, ground Kaffir corn, alfalfa meal, oat meal, ground screenings from wheat, charcoal, salt and ground bone.	As certified,	1415
3.19	2.30	3.70	5.00	2 75	Kaffir corn, buckwheat, hemp seed, millet seed, vetch, Canada peas, hulled oats and rice properly balanced.	As certified,	1889

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1774	BLANK AND GOTTSHALL, SUN-BURY, PA. Baby Chick Feed,	Lewistown, H. C. Jackson Supply Co.	Per ct. 9.16	Per ct. 11.13	Per ct. 10.00
1773	Mash Food,	Lewistown, H. C. Jackson Supply Co.	8.35	15.44	15.00
1530	BLATCHFORD'S Calf Meal Factory, WAUKEGAN, ILL. Blatchford's Fill the Basket Egg Mash.	Greensburg, McFarland Supply Co.	9.29	19.25	19.00
2303	BROWN & FASSETT, TUNKHANNOCK, PA. Favorite Dry Mash,	Tunkhannock, Brown & Fassett.	8.65	18.13	18-20
1566	THE BUCKEYE CEREAL CO., MASSILLON, O. Buckeye Scratch Feed,	Clearfield, J. T. Murphy,.	12.21	10.50	10.00
1896	BUFFALO CEREAL CO., BUFFALO N. Y. Bufecco Poultry Mash,	Malvern, Thomas Haines Co.	11.81	15.44	15-17
1897	Bufecco Scratching Grains Intermediate,	Malvern, Thomas Haines Co.	13.25	10.50	10-12
1898	Iroquois Scratching Grains,	Malvern, Thomas Haines Co.	13.15	10.00	10-12
1659	CANTON FEED & MILLING CO., CANTON, OHIO. Bako Chick Feed,	Washington, J. K. Lawson.	12.36	12.31	10.00
1661	Bako Scratching Grains,	Washington, J. K. Lawson.	13.26	11.44	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.88	Per ct. 3.00	Per ct. 2.72	Per ct. 4.00				
				6.00	Corn meal, hulled oats, wheat bran, wheat middlings, shredded wheat, ground hen-e-ta bone, meat meal, bone flour, ground blood, charcoal, (German fennel seed, French gentian root, foenu-greek seed, Spanish licorice root.	As certified,	1774
3.45	4.00	5.26	5.00	2.25	Corn meal, middlings, bran, gluten meal, pea meal, alfalfa meal, fish scrap, meat meal, hen-e-ta.	As certified,	1773
4.62	4.00	7.63	10.00	2.75	Blatchford's calf meal (locust bean meal, unpressed flaxseed, wheat flour, rice polish, blood flour, barley meal, ground beans and peas, old process oil meal, cocoa shell meal, re-cleaned cottonseed meal, foenu-greek, dried milk, anise and salt), also alfalfa bone, corn and oat meals, wheat bran, wheat middlings, beef scraps, fish, cap-sicum, and powdered limestone.	As certified,	1530
6.15	5-7	8.88	7-9	2 10	Bran, middlings, corn meal, ground oats, beef scraps, alfalfa meal, gluten, oil meal, charcoal, salt.	As certified,	2303
3.13	2.50	2.78	10.00	2 10	Cracked corn, wheat Kafir corn, clean screenings, buck-wheat.	Cracked corn, wheat Kafir corn, screenings, buckwheat, barley and small amount whole weed seeds.	1566
4.27	4-5	5.43	5-6	2 00	Ground corn, wheat bran and middlings hominy feed, oat middlings and rolled oats.	As certified,	1896
2.54	2-3	2.10	4.00	2 50	Wheat, corn, Kafir corn, buckwheat, peas and millet.	As certified,	1897
2.79	3-4	2.47	5.00	2 50	Corn, oats, barley, buckwheat, Kafir corn, wheat, sun-flower seed.	As certified,	1898
4.71	2.50	3.85	5.00	2 50	Corn, Kafir corn, wheat, millet and pigeon grass.	Corn, Kafir corn, wheat, millet and large amount whole weed seeds (mostly pigeon grass).	1659
2.77	4.00	3.09	8.00	2 25	Corn barley, wheat, Kafir corn, buck-wheat, sunflower seed, linseed cake.	Corn, barley, wheat, Kafir corn, buckwheat sunflower seed and small amount whole weed seeds.	1661

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1801	E. D. CLARK, ALTOONA, PA. Mash Feed,	Altoona, E. D. Clark, ..	Per ct. 10.40	Per ct. 13.06	Per ct. 8-10
1798	Superior Chick Food,	Altoona, E. D. Clark, ..	11.77	9.00	8.00
1797	Superior Hen Food,	Altoona, E. D. Clark, ..	12.22	9.31	8.00
1859	THE G. E. CONKEY CO., CLEVELAND, OHIO. Conkey's Buttermilk Starting Food for Chicks.	Sharon, John M. Porter,	10.83	14.69	12.00
1471	Conkey's Buttermilk Starting Food for Chicks.	Pittsburgh, The I. W. Scott Co.	10.70	15.38	12.00
		Average,	10.76	15.04	.....
2224	THE CORNO MILLS CO., ST. LOUIS, MO. Corno Hen Feed,	Altoona, R. F. Notley, ..	12.14	10.63	10.00
2238	DAYTON MILLING CO., TOWANDA, PA. Dayton's Laying Mash,	Towanda, Dayton Milling Co.	9.86	17.00	12-15
1812	Dayton's Laying Mash,	Williamsport, Gohl & King.	9.87	15.94	12-15
		Average,	9.86	16.47	.....
2245	Dayton's Ideal Scratch Grains—No Grit.	Towanda, Dayton Milling Co.	12.93	11.50	8-12
2412	THE ALBERT DICKINSON CO., CHICAGO, ILL. Dickinson's Globe Egg Mash,	Lebanon, A. M. Weltmer's Sons.	9.81	16.75	15.00
1328	Dickinson's Globe Scratch Feed—No Grit.	Kittanning, J. A. Gault Co.	12.28	12.00	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 4.08	Per ct. 3.00	Per ct. 5.06	Per ct. 9.80	2.00	Corn chop, gluten feed, wheat bran, wheat middlings, oil meal, ground oats and hen-e-ta.	As certified,	1801
2.21	2.00	1.78	15.00	2 00	Cracked corn, Kaffir corn, millet grit, oyster shell and wheat.	As certified,	1798
2.75	2.00	2.77	5.00	1 85	Cracked corn, buckwheat, Kaffir corn, barley, milo maize, oats, wheat, sunflower seed, grit and oyster shell	As certified,	1797
4.07	3.00	2.60	4.00	5 00	Hulled oats, wheat middlings, wheat, corn, prepared buttermilk, bone, iron sulphate, gentian root and prepared mustard seed.	Hulled oats, wheat middlings, wheat, corn, prepared buttermilk, bone, iron sulphate, gentian root, prepared mustard seed and barley.	1859
4.08	3.00	2.67	4.00	7.14	Hulled oats, wheat middlings, wheat, corn, prepared buttermilk, bone, iron sulphate, gentian root and prepared mustard seed.	As certified,	1471
4.08	.....	2.63	.....	6 07			
3.54	3.00	2.38	3.50	2 60	Wheat, cracked corn, Kaffir corn, and sunflower seed.	As certified,	2224
5.49	3-5	8.73	6-9	2 40	Gluten, middlings, corn meal, bran, ground oats, oil meal, alfalfa and hen-e-ta bone grits, buckwheat and meat scraps.	As certified,	2238
4.47	3-5	8.01	6-9	2 50	Gluten, middlings, corn meal, bran, ground oats, oil meal, alfalfa and hen-e-ta bone grits, buckwheat feed.	As certified,	1812
4.98	.....	8.37	.....	2 45			
2.92	3-6	3.27	3-6	2 60	Cracked corn, oats buckwheat, sunflower seed, Kaffir corn and wheat.	As certified,	2245
4.85	3.00	6.97	10.00	2 60	Wheat bran, wheat middlings, alfalfa meal, corn bran, corn feed meal, linseed oil cake, meat scraps, salt $\frac{1}{2}$ of 1%.	As certified,	2412
3.55	2.50	2.71	5.00	1 90	Corn, wheat, barley, oats, Kaffir corn, buckwheat, sunflower and linseed oil cake.	Corn, wheat, barley, oats, Kaffir corn, buckwheat, sunflower seed, linseed oil cake, rye and vetch seed.	1328

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1409	Dickinson's Globe Scratch Feed—No Grit.	Monaca, Monaca Roller Mills.	Per ct. 12.50	Per ct. 10.94	Per ct. 10.00
		Average,	12.39	11.47	.....
1857	Pinetree Chick Feed—No Grit,	Sharon, Sharon Flour & Feed Co.	12.75	10.50	10.00
2399	White Cross Scratch Feed,	Indiana, St. Clair, Rinn & Co.	11.80	10.50	10.00
	GEORGE E. DULL, EASTON, PA.				
2383	Poultry Mash,	Easton, George E. Dull,	11.49	13.50	6.10
2389	Extra Poultry Mash,	Easton, George E. Dull,	9.97	20.76	8.00
	F. H. DYER, LOCK HAVEN, PA.				
1695	Dyer's Dry Mash,	Lock Haven, F. H. Dyer,	10.45	19.06	19.38
	THE EASTON FLOUR & FEED CO., EASTON, PA.				
2391	Easton's Best Poultry Mash,	Easton, The Easton Flour & Feed Co.	10.18	17.00	14.00
	EQUITY CO-OPERATIVE EX-CHANGE, WELLSBORO, PA.				
2195	Equity Laying Mash,	Wellsboro, Equity Co-Operative Exchange,	8.90	24.88	.....
	ERIE MILLING & SUPPLY CO., ERIE, PA.				
2108	Government Mash,	Erie, Erie Milling & Supply Co.	9.39	21.26	12.00
	JOHN W. ESHELMAN, LANCASTER, PA.				
2127	John W. Eshelman's Laying Mash, ...	Lancaster, John W. Eshelman.	9.90	20.94	20.00
1880	John W. Eshelman's Laying Mash, ...	Coatesville, J. T. Gay & Son.	10.37	20.88	20.00
1523	John W. Eshelman's Laying Mash, ...	Telford, J. S. Kulp & Co.	10.41	21.63	20.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.33	Per ct. 2.50	Per ct. 1.56	Per ct. 5.00	2 25	Corn, wheat, Kaffir corn, hulled oats, millet.	As certified,	1409
3.44	.....	2.13	.....	2 08			
3.27	2.50	1.97	5.00	2 50	Wheat, corn, Kaffir corn and millet	As certified,	1857
3.35	2.50	2.65	5.00	2 75	Corn, wheat, rye, barley, oats, Kaffir corn, buckwheat, sunflower.	Corn, wheat, rye, bar- ley, oats, Kaffir corn, buckwheat and whole seed and small amount whole weed seeds.	2399
4.39	2.60	5.05	7.00	2 40	Bran middlings and corn meal	As certified,	2388
4.97	3.00	9.18	5.00	2 75	Bran, middlings, corn meal, gluten, oil meal, alfalfa, fish or meat scrap.	Bran, middlings, corn meal, gluten, oil meal, alfalfa and meat scraps.	2389
4.47	5.09	9.17	7.63	2 09	Corn and oats chop, bran, alfalfa, oil meal, gluten meal, beef scraps.	As certified,	1695
4.19	4.00	3.81	5.10	2 00	Bran, corn chop, mid- dlings, oil meal, al- falfa, gluten, ground oats, and less than one half of 1% salt.	As certified,	2391
5.90	.....	6.25	.....	2 30	Corn meal, wheat mid- dlings, wheat bran alfalfa meal, oil meal, beef scrap and 1% salt.	As certified,	2195
4.95	3.00	10.14	15.00	2 50	Wheat shorts, wheat bran, corn meal, al- falfa meal, corn gluten feed, oil meal, charcoal, ground oats and meat scraps.	As certified,	2193
6.19	5.00	5.95	7.00	44 00	Twenty per cent beef and fish scrap, gluten meal, cotton- seed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified,	2197
6.08	5.00	6.55	7.00	2 25	Twenty per cent beef and fish scrap, gluten meal, cotton- seed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified,	1880
5.73	5.00	5.62	7.00	2 25	Twenty per cent beef and fish scrap, gluten meal, cotton- seed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified,	1523

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2288	John W. Eshelman's Laying Mash,	Derry, George Mowry & Bro.	Per ct. 9.90	Per ct. 22.56	Per ct. 20.00
		Average,	10.14	21.50	.....
2129	Scratch Feed—No Grit,	Lancaster, John W. Eshelman.	12.89	10.88	10.00
1876	Scratch Feed—No Grit,	Coatesville, Handwork Brothers.	13.81	9.69	10.00
		Average,	13.35	10.29	.....
1904	THE FERGER GRAIN CO., CINCINNATI, OHIO. Columbia Scratch Grains,	Wayne, L. K. Burket & Brother.	13.23	11.06	11.00
1821	THE GATES ELEVATOR CO., CLEVELAND, OHIO. Gates' Quality Growing,	Oil City, Oil City Milling Co.	13.32	10.38	11.50
1822	Gates' Quality Poultry Mash,	Oil City, Oil City Milling Co.	11.14	21.81	19.50
1690	Gates' Quality Scratch,	Warren, Warren City Mills.	14.55	11.19	11.00
1561	GLOBE ELEVATOR CO., BUFFALO, N. Y. Blue Ribbon Growing Mash,	Philipsburg, Centre Milling Co.	10.18	15.63	15-17
1562	Blue Ribbon Laying Mash,	Philipsburg, Centre Milling Co.	8.91	21.25	20-22
1438	Blue Ribbon Laying Mash,	Celmar, W. H. D. Godshall.	8.27	20.19	20-22

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.90	Per ct. 5.00	Per ct. 5.29	Per ct. 7.00	3 00	Twenty per cent. beef and fish scrap, gluten meal, cottonseed meal, oil cake meal, alfalfa meal, wheat bran, wheat middlings, corn meal, ground grain screenings, oats chop and hominy feed.	As certified.	2288
6.23	.....	5.85	.....	48 50			
3.17	3.00	3.14	3.00	46 00	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye, oats and small amount small whole weed seeds.	2129
3.24	3.00	1.98	3.00	.....	Cracked corn, re-cleaned grain screenings from wheat, sunflower seed, wheat, barley, Kaffir corn, milo maize, buckwheat, rye and oats.	As certified.	1876
3.21	.....	2.56	.....	46 00			
3.24	3.00	2.49	4.00	2 50	Barley, oats, buckwheat, Kaffir corn and sunflower seed.	Barley, oats, buckwheat, Kaffir corn, sunflower seed and small amount whole weed seeds.	1904
2.78	4.00	3.10	4.00	3 00	Cracked wheat, cracked corn, oat meal and millet seed.	Cracked wheat, cracked corn, oat meal, millet seed, Kaffir corn and small amount whole weed seeds.	1821
4.85	5.00	7.53	8.00	2 20	Alfalfa meal, oil meal, beef scraps, gluten, bran, white middlings, salt and corn meal.	As certified,	1822
2.26	4.50	2.43	4.00	2 00	Cracked corn, Kaffir corn, barley, buckwheat, sunflower seed.	Cracked corn, Kaffir corn, barley, buckwheat, sunflower seed and trace whole weed seeds.	1690
4.21	4-6	6.47	5-7	2 50	Wheat bran, corn gluten meal, corn meal and oat meal.	As certified,	1561
5.21	3.00	10.51	9-10	2 50	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal, fish scrap, ground bone.	As certified,	1562
5.30	3.00	8.77	9-10	2.05	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal, fish scrap, ground bone.	As certified,	1438

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1973	Blue Ribbon Laying Mash,	Bellefonte, C. Y. Wag- ner.	Per ct. 9.27	Per ct. 20.88	Per ct. 20-22
1437	Blue Ribbon Scratch Feed,	Average, Colmar, W. H. D. God- shall.	8.81 11.95	20.77 11.75	..... 12-14
1972	Blue Ribbon Scratch Feed,	Bellefonte, C. Y. Wag- ner.	11.66	11.00	12-14
1717	EDWARDS & LOOMIS CO., CHICA- GO, ILL. Cackle Brand Poultry Feed,	Average, Philadelphia, P. A. Mc- Clain & Co.	11.80 13.83	11.38 10.50	..... 10.00
1841	Red Comb Fine Chick—No Grit,	Ridgway, Smith Brothers Co.	13.52	11.25	10.00
2028	HALES & EDWARDS CO., CHICAGO, ILL. Red Comb Meat Mash,	Du Bois, Timlin, Kelly Co.	10.41	17.75	15.00
2030	Red Comb Poultry Feed—No Grit,	Du Bois, Timlin Kelly Co.	12.50	12.00	10.00
1950	DWIGHT E. HAMLIN, PITTS- BURGH, PA. Hamlin's Quality Poultry Dry Mash, ..	Washington, Charles B. Ruch.	8.75	20.94	17.00
2002	Hamlin's Quality Poultry Dry Mash, .	California, J. A. Will- iams.	8.55	24.16	17.00
		Average,	8.65	22.55	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
4.53	3.00	8.55	9-12				
				2 40	Wheat bran, wheat middlings, wheat flour, ground oats, corn meal, corn gluten meal, pea meal, ground alfalfa, linseed oil meal, meat meal, fish scrap, ground bone.	As certified,	1973
5.03	.....	9.27	.....	2 32			
3.45	4-5	3.27	2-4	2 10	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed and green split peas.	As certified,	1437
3.61	4-5	3.25	3-4	2 50	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed and green split peas.	Cracked corn, wheat, barley, Kaffir corn, oats, buckwheat, sunflower seed, green split peas and rye.	1972
3.53	.....	3.26	.....	2 30			
2.52	2.50	2.53	5.00	2 10	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed.	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed and small amount whole weed seeds.	1717
2.47	2.50	1.67	5.00	2 50	Cracked wheat, cracked corn, cracked Kaffir corn, millet seed and steel cut oats.	As certified,	1841
4.61	4.00	7.20	8.00	2 25	Oat meal, oil meal, corn meal, meat scraps, wheat bran, wheat middlings, alfalfa meal and not over 6% shell, 1% charcoal.	As certified,	2028
3.32	2.50	3.02	5.00	2 40	Wheat, cracked corn, Kaffir corn, barley, oats, sunflower seed, and buckwheat.	As certified,	2030
4.97	3.00	9.98	10.00	2 20	Steam cooked corn meal, sweet corn flakes, bran, middlings, green alfalfa, high grade meat scraps, ground cocoa bean shell, dried distillers grains, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified,	1650
5.30	3.50	11.06	12.00	2 25	Steam cooked corn meal, sweet corn flakes, bran, middlings, green alfalfa, high grade meat scraps, ground cocoa bean shell, dried distillers grains, linseed oil meal and $\frac{1}{2}$ of 1% salt.	As certified,	2003
5.14	.....	10.52	.....	2 23			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1308	THE HEFFNER MILLING CO., CIRCLEVILLE, O. Dixie Hen Scratch Grains,	McKeesport, A. David- son.	Per ct. 12.23	Per ct. 10.81	Per ct. 8.00
1477	HEN-E-TA BONE CO., NEWARK, N. J. Hen-O-La Dry Mash,	Wilksburg, Johnston & Smith.	7.67	13.69	12.00
2350	HONESDALE MILLING CO., HONES- DALE, PA. Choice Mixed Grain for Poultry,	Honesdale, Honesdale Milling Co.	11.79	10.00	9-10
1410	J. H. HORNBY & SON, NEW BRIGH- TON, PA. Hornby's Poultry Feed—No Grit,	New Brighton, J. H. Hornby & Son.	12.65	9.94	10.00
1888	GEORGE HULL & SONS, HANOVER, PA. Scratch Feed—No Grit,	New Oxford, John H. Duttera.	13.53	10.25	10.00
1292	JOHNSTOWN MILLING CO., JOHNS- TOWN, PA. Scratch Feed,	Johnstown, Johnstown Milling Co.	12.46	10.25	8-10
1312	KEYSTONE COMMERCIAL CO., Mc- KEESPORT, PA. John-Hen Poultry Feed,	McKeesport, Keystone Commercial Co.	10.80	10.50	10.00
1543	CHARLES A. KRAUSE MILLING CO., MILWAUKEE, WIS. Blue Top Scratch Feed—No Grit,	Mt. Pleasant, J. H.	12.30	10.44	10.00
1577	Blue Top Scratch Feed—No Grit, . . .	Berwyn William H.	13.50	10.31	10.00
		Average,	12.90	10.38	.....
2289	TAYLOR KUNKLE, IRWIN, PA. Scratch Feed,	Irwin, Taylor Kunkle, .	10.92	10.50	8.00

FEEDING STUFFS COLLECTED IN 1916 —Continued

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.66	Per ct. 2.00	Per ct. 3.01	Per ct. 3.00	2 10	Cracked corn, wheat oats, barley, buck wheat, Kaffir corn, sunflower seed.	As certified,	1308
3.17	2.00	4.50	4.00	2 50	Corn meal, corn gluten feed, wheat middlings, wheat bran, old process linseed oil meal and Hen-o-ta (composed of phosphate, silica, lime and soda).	As certified,	1477
3.34	3-4	2.33	2-3	2 50	Sunflower seed, crack ed corn, oyster shells, wheat, bar ley, oats, Kaffir corn, buckwheat, whole corn.	Cracked corn, oyster shells, wheat, oats, Kaffir corn and whole corn.	2350
3.84	2.50	2.42	5.90	1 85	Cracked corn, Kaffir corn, barley, oats and sunflower seed.	Cracked corn, Kaffir corn, barley, oats, sunflower seed and rye.	1419
2.74	3.00	2.42	5.00	2 00	Cracked corn, reclean ed grain screenings, from wheat, sun flower seed wheat, barley, Kaffir corn, buckwheat, rye and oats.	As certified,	1383
2.94	3.00	2.52	4-12	1 90	Cracked corn, wheat oats, Kaffir corn, buckwheat, barley, oyster shell and grit, and sunflower seed.	As certified,	1292
2.95	2.50	1.96	3.00	2 00	Wheat, cracked corn, buckwheat, barley, Kaffir corn, oats, sunflower seed, char coal, grit and oys ter shell.	As certified,	1312
2.26	2.50	3.17	5.00	2 00	Corn, wheat, buck wheat, barley, oats, Kaffir corn and sun flower.	Corn, wheat, buck wheat, barley, oats, Kaffir corn sunflower and small amount whole weed seeds.	1543
3.29	2.50	2.87	5 00	2 25	Corn, wheat, buck wheat, barley, oats, Kaffir corn and sun flower.	As certified,	1355
2.78	.....	3.02	.....	2 13			
3.59	2.00	2.65	10.00	2 50	Cracked corn, wheat, oats, sunflower seed Kaffir corn, buck wheat and oyster shell.	As certified,	2289

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1287	THE LAKE SHORE ELEVATOR CO., CLEVELAND, OHIO. Special Scratch Food,	Windber, L. B. Reeser & Co.	Per ct. 10.87	Per ct. 10.69	Per ct. 10.50
2227	H. H. LANGDON, ALTOONA, PA. Langdon's Poultry Mash,	Altoona, H. H. Langdon,	9.28	17.81	14-17
2156	THE LARROWE MILLING CO., DE- TROIT, MICH. Larro-Mash,	Knoxville, Deerfield Mill- ing Co.	9.89	29.88	25.00
2286	Laro-Mash,	Jeannette, Hart-Hunter Milling Co.	9.74	24.56	25.00
2000	Log Cabin Poultry Scratch Feed (With- out Grit).	Average, Monongahela, J. B. Hay- ward & Son.	9.81 11.74	27.22 10.81	..... 10.00
2035	Log Cabin Poultry Scratch Feed (With- out Grit).	Brookville, Kline's Sifter Mills.	11.89	11.19	10.00
1417	W. W. McCULLOUGH, WEST BRIDGE- WATER, PA. Chicken Mash,	Average, West Bridgewater, W. W. McCullough.	11.81 8.74	11.00 20.06	..... 18.00
2386	MANN & ALLSHOUSE, EASTON, PA. Mixed Grains,	Easton, Mann & Alls- house.	14.21	10.25	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.24	Per ct. 3.40	Per ct. 2.59	Per ct. 2.85	1 70	Cracked corn, wheat, barley, milo maize, buckwheat and sunflower seed.	As certified,	1287
4.76	3-5	7.34	7-9	2.50	Wheat bran, corn meal, alfalfa meal, oil meal, beef scraps, oats and $\frac{1}{2}$ of 1% salt.	As certified,	2227
3.82	3.00	6.89	10.00	2 20	Granulated dried beet pulp, granulated blood, granulated bone, oat middlings, corn meal, standard wheat middlings, buckwheat feed, linseed oil meal, standard wheat bran, corn gluten feed and $\frac{1}{2}$ of 1% salt.	Granulated dried beet pulp, granulated blood, granulated bone, oat middlings, standard wheat middlings, linseed oil meal, standard wheat bran, corn gluten feed, corn meal and salt.	2156
3.94	3.00	8.88	10.00	55.00	Granulated dried beet pulp, granulated blood, meat meal, granulated bone, corn meal, oat middlings, standard wheat middlings, alfalfa meal, buckwheat feed, linseed oil meal, standard wheat bran, corn gluten feed, ground fengreek seed and $\frac{1}{2}$ of 1% salt.	As certified,	2286
3.88	.....	7.88	.....	49 50			
3.42	2.50	3.18	6.00	2 25	Wheat, cracked corn, barley, oats, Kaffir corn, milo maize, buckwheat and sunflower seeds.	Wheat, cracked corn, barley, oats, Kaffir corn, milo maize, buckwheat, sunflower seed and small amount whole weed seeds.	2000
3.03	2.50	3.42	6.00	45 00	Wheat, cracked corn, barley, oats, Kaffir corn, milo maize, buckwheat and sunflower seeds.	Wheat, cracked corn, barley, oats, Kaffir corn, milo maize, buckwheat, sunflower seed and small amount whole weed seeds.	2035
3.23	.....	3.30	.....	45 00			
6.81	4.00	8.64	12.00	2 00	Ground corn, ground oats, wheat bran, rye shorts, wheat middlings, corn gluten feed, meat meal, bone meal, alfalfa meal, oil meal, charcoal.	As certified,	1417
2.90	.....	2.62	.....	2 40	Wheat, buckwheat, cracked corn, Kaffir corn, oats and sunflower seed.	Wheat, buckwheat, cracked corn, Kaffir corn, oats, sunflower seed, small amount marble grit and small amount whole weed seeds.	2386

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1935	C. P. MATTHEWS & SONS, INC., SCRANTON, PA. Best Mixed Grain for Chickens,	Wilkes-Barre, C. P. Matthews & Sons, Inc.	Per ct. 12.24	Per ct. 10.19	Per ct. 8-9
2333	Best Mixed Grain for Chickens,	Scranton, C. P. Matthews & Sons, Inc.	11.35	11.75	8-9
		Average,	11.79	10.97	.....
2327	Best Poultry Mash,	Scranton, C. P. Matthews & Sons, Inc.	8.05	17.69	17-20
2334	Chicken Feed,	Scranton, C. P. Matthews & Sons, Inc.	10.29	10.56	8-10
1913	MINER HILLARD MILLING CO., WILKES-BARRE, PA. Little Chick Feed,	Wilkes-Barre, Miner-Hillard Milling Co.	13.39	9.88	8.00
1920	Mixed Chicken Feed,	Wilkes-Barre, Miner-Hillard Milling Co.	11.78	9.69	8-12
1916	Poultry Mash,	Wilkes-Barre, Miner-Hillard Milling Co.	10.49	12.78	15-17
1917	No. 1 Scratch Feed,	Wilkes-Barre, Miner-Hillard Milling Co.	12.94	10.61	4.00
1921	Special Scratch Feed,	Wilkes-Barre, Miner-Hillard Milling Co.	13.10	10.56	4-12
1919	Superior Growing Feed,	Wilkes-Barre, Miner-Hillard Milling Co.	11.38	18.38	18-20
2060	THE MT. HOLLY FEED & GRAIN CO., MT. HOLLY SPRINGS, PA. Holly-O Pure Dry Mash Poultry Feed,	Mt. Holly Springs, The Mt. Holly Feed & Grain Co.	8.22	25.38	20.00
1887	THE NEW OXFORD PURE FEED CO., NEW OXFORD, PA. Ox-O Pure Dry Mash Poultry Feed.	New Oxford, The New Oxford Pure Feed Co.	11.12	24.38	25.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.39	Per ct. 2-3	Per ct. 3.42	Per ct. 4-5				
				2 20	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley and sunflower seed, grit.	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley, grit and small amount whole weed seeds.	1935
3.55	2-3	3.14	4-5	2 60	Kaffir corn, buckwheat grains, wheat, cracked corn, oats, barley and sunflower seed, grit.	Kaffir corn, buckwheat grains wheat, cracked corn, oats, barley, sunflower seed and grit. Corn mouldy.	2333
3.47	.....	3.28	.....	2 40			
4.76	3-4	13.14	10-12	2 10	Gluten, white middlings, wheat bran corn meal, linseed meal, alfalfa meal.	As certified,	2327
3.41	2-3	2.26	4-5	2 50	Kaffir corn, wheat, corn, sunflower seed, buckwheat, oats, oyster shells, grit.	As certified,	2334
2.50	2.00	1.81	4.00	2 45	Cracked wheat, cracked Kaffir corn, millet, cracked peas.	As certified,	1918
2.73	2-3	3.15	4-5	2 15	Samp, Kaffir corn, buckwheat grain, wheat, cracked corn, grit, cracked peas, sunflower seed and barley.	As certified,	1920
4.34	5-7	9.54	8-10	2 30	Pea meal, alfalfa meal, wheat middlings, buckwheat, middlings, wheat bran, ground oats, hominy feed.	As certified,	1916
2.75	2.00	3.65	4.00	2 30	Cracked corn, buckwheat grain, barley, Kaffir corn, wheat, cracked peas, sunflower seed, coarse hominy.	As certified,	1917
2.86	2-4	2.91	2-4	2 25	Cracked corn, buckwheat grain, barley, Kaffir corn, wheat cracked peas, and sunflower seed.	As certified,	1921
5.36	6-8	5.70	6-8	2 30	Wheat bran, wheat middlings, hominy feed and beef meal.	As certified,	1919
6.28	6.50	7.44	7.50	45 00	Beef, blood and bone, new process linseed meal, steel cut oats, corn meal, wheat middlings, wheat bran, corn gluten feed, pulverized malt, $\frac{1}{2}$ of 1% salt.	As certified,	2060
6.00	6.50	7.22	6.50	2 00	Beef, blood and bone, new process linseed meal, steel cut oats, corn meal, wheat middlings, wheat bran, gluten, brewers' grains, and $\frac{1}{2}$ of 1% salt.	As certified,	1887

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1779	NOWAK MILLING CORPORATION, BUFFALO, N. Y. Fidelity Scratch Feed,	Yeagertown, J. M. Yeager.	Per ct. 11.94	Per ct. 10.50	Per ct. 10-12
1780	Lay-Egg-O Dry Mash,	Yeagertown, J. M. Yeager.	8.01	13.56	12.00
1849	OSWEGO MILLING CO., OSWEGO, N. Y. Pontiac Scratch Feed,	Paoli, Edward F. Bracken.	13.51	11.31	10.00
1687	THE PARK & POLLARD CO., BOS- TON, MASS. Baby Buster Chick Feed,	Kane, J. A. Stoll & Co.,...	12.91	13.00	11.00
1689	Growing Feed,	Kane, J. A. Stoll & Co.,...	11.75	14.50	10.00
1652	Lay or Bust (Dry Mash),	Phillipsburg, J. O. Reed	8.29	20.13	18.00
1303	Lay or Bust (Dry Mash),	Pitcairn, D. F. Salyards,	9.81	16.69	18.00
1279	Lay or Bust (Dry Mash),	Johnstown, John Thomas & Sons.	9.52	19.69	18.00
		Average,	9.20	18.84	.....
1848	Red Ribbon Scratch Feed,	Paoli, Edward F. Bracken.	14.07	11.13	10.00
1280	Screened Scratch Feed,	Johnstown, John Thomas Sons.	14.35	10.13	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.04	Per ct. 3.00	Per ct. 3.28	Per ct. 5.00				
				40 60	Cracked corn, wheat milo maize, barley, buckwheat, sun- flower seed.	Cracked corn, wheat, milo maize, barley, buckwheat, sunflower seed and small amount small whole weed seeds.	1779
2.57	3.09	5.31	4.00	48 00	Corn feed meal, corn gluten feed, wheat bran, wheat mid- dlings and hen-e-ta (phosphorous lime, sodium and silica).	As certified	1780
2.52	1.50	2.49	5.00	2 25	Cracked corn, wheat barley, buckwheat, oats, Kaffir corn and milo.	Cracked corn, wheat, barley, buckwheat, oats, Kaffir corn, milo maize and small amount whole weed seeds.	1687
2.80	2.00	2.12	5.00	2 75	Cracked: Corn, wheat, Kaffir corn, milo, whole millet seed, oats and shredded fish.	Cracked: Corn, wheat, Kaffir corn, milo maize, whole millet seed, oats, shredded fish and small amount small whole weed seeds.	1687
2.88	3.50	5.43	8.00	2 50	Ground: Corn, wheat, barley, oats, meat, bone, alfalfa, Kaffir corn, wheat bran, wheat middlings, buckwheat, beet pulp, calcium car- bonate and salt.	Ground: Corn, wheat, barley, oats, meat, bone, alfalfa, Kaffir corn, wheat bran, wheat middlings, buck- wheat, beet pulp, cal- cium carbonate, salt and small amount screenings containing trace whole weed seeds.	1689
4.26	3.50	9.14	12.00	2 20	Ground: Wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium car- bonate and salt.	As certified,	1553
4.11	3.56	7.46	12.00	2 65	Ground: Wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium car- bonate and salt.	As certified,	1303
3.64	3.50	7.31	12.00	2 50	Ground: Wheat bran, wheat middlings, corn, wheat, oats, barley, Kaffir corn, buckwheat, alfalfa, fish, meat, bone, beet pulp, calcium car- bonate and salt.	As certified,	1279
4.00	.....	7.97	.....	2 45			
2.13	1.50	3.03	5.00	2 50	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	As certified,	1348
3.30	3.50	2.55	5.00	2 10	Cracked corn, wheat, buckwheat, barley, oats, Kaffir corn, milo and sunflower seed.	As certified,	1290

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1673	M. C. PETERS MILL CO., OMAHA, NEB. Peter's Red Feather Poultry Scratch Feed.	Philadelphia, Estate of S. D. Hunsberger.	Per ct. 12.10	Per ct. 11.06	Per ct. 9.00
2342	PHELPS & SIBLEY CO., CUBA, N. Y. Phelps & Sibley Co. Scratch Grains,...	Carbondale, C. Ditchburn's Sons.	11.19	10.69	8.00
1855	PRAIRIE STATE MILLING CO., CHICAGO, ILL. Garland Chick Feed—No Grit,	Washington, Washington Milling Co.	12.95	11.94	10.00
1656	Prairie State Feed—No Grit,	Washington, Washington Milling Co.	13.20	12.00	10.00
1547	J. E. PRITTS, SCOTSDALE, PA. Pritts Dry Mash,	Scottdale, J. E. Pritts,...	9.86	30.75	22-26
2076	PURITY OATS CO., DAVENPORT, IOWA. Tom Boy Scratch Feed,	Newport, W. H. Kepner,	12.38	11.50	.....
1648	THE QUAKER OATS CO., CHICAGO, ILL. Early Bird Scratch Grains—No Grit, ..	Pittsburgh, Arbuckle & Co.	11.22	11.69	10.00
1318	Pansy Scratch Grains—No Grit,	Leechburg, Harry May, .	13.34	10.13	10.00
1989	Pansy Scratch Grains with Grit,	Fredericktown, Keystone Mills Co.	11.18	10.06	10.00
1652	Quaker Chick Feed—No Grit,	Washington, C. S. Hunter Co.	12.25	12.31	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 3.29	Per ct. 3.00	Per ct. 2.98	Per ct. 6.00	38 60	Wheat, cracked corn, Kafir corn, milo maize, oats, barley, buckwheat and sun flower seed.	As certified,	1674
3.14	2.00	2.90	5.00	2 60	Cracked corn, Kafir corn, buckwheat, oats, wheat and wheat screenings.	As certified,	2342
3.00	2.50	3.09	5.00	2 20	Cracked wheat, cracked corn, cracked Kafir corn, millet, steel cut oats and not over 1% charcoal.	Cracked wheat, cracked corn, cracked Kafir corn, millet, steel cut oats, charcoal and trace whole weed seeds.	1655
2.20	2.50	2.98	5.00	2 10	Wheat, corn, Kafir corn, barley, sun flower seed, buckwheat and not over 1% charcoal.	As certified,	1656
6.16	5-7	5.86	9.00	2 50	Beef scraps, alfalfa meal, cottonseed meal, corn, wheat, oats, charcoal, oil meal, wheat bran and wheat middlings.	Beef scraps, alfalfa meal, cottonseed meal, corn, wheat, oats, charcoal, wheat bran and wheat middlings.	1547
2.92	.....	2.95	.....	2.50	.....	Corn, oats, barley, wheat, Kafir corn, buckwheat, sunflower seed and small amount whole weed seeds.	2076
3.88	2.50	3.92	5.00	36 00	Whole wheat, whole Kafir corn, cracked Indian corn, sunflower seeds, whole oats, whole barley, recleaned wheat screenings.	Whole wheat, whole Kafir corn, cracked corn, sunflower seed, whole oats, whole barley, wheat screenings and large amount whole weed seeds.	1648
3.56	2.50	2.20	5.00	2 00	Whole wheat, whole Kafir corn, cracked Indian corn, whole buckwheat, whole barley, sunflower seeds.	Whole wheat, whole Kafir corn, cracked corn, whole buckwheat, whole barley, oats, sunflower seed and small amount whole weed seeds.	1318
3.20	2.50	2.09	5.00	2 25	Whole wheat, whole barley, whole Kafir corn, whole buckwheat, sunflower seed, ground oyster shell or marble grit 6%, cracked Indian corn.	Whole wheat, whole barley, whole Kafir corn, whole buckwheat, cracked corn, sunflower seed and marble grit.	1989
3.33	2.50	2.54	5.00	2 50	Cracked wheat, cracked Kafir corn, cracked Indian corn, whole millet seed, oat meal, charcoal, wild buckwheat with not to exceed 1/2 of 1% miscellaneous wild seeds occurring in above seeds and grains.	Cracked wheat, Kafir corn and Indian corn, whole millet seed, oat meal, flaxseed, charcoal and large amount whole weed seeds including wild buckwheat.	1652

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1299	Quaker Poultry Mash,	Johnstown, J. H. Hersher & Son.	Per ct. 9.00	Per ct. 18.56	Per ct. 17.50
1685	Quaker Poultry Mash,	Kane, Swanson Grocery Co.	10.14	22.75	17.50
		Average,	9.57	20.66	.....
2042	Quaker Scratch Grains—No Grit	Clarion, A. C. Snyder & Son.	12.81	11.69	10.00
1872	Schumacher Little Chick Feed,	Coatesville, Handwork Brothers.	11.95	11.13	10.00
1616	Schumacher Little Chick Feed,	Parnassus, Johnston & Hamilton.	11.08	10.25	10.00
1783	Schumacher Little Chick Feed,	Mifflin, W. H. Manbeck & Co.	11.54	11.00	10.00
1865	Schumacher Little Chick Feed,	Farrell, J. B. Roux, ..	12.11	11.19	10.00
		Average,	11.67	10.89	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 6.02	Per ct. 4.00	Per ct. 8.67	Per ct. 10.00	2 10	Meat scraps, oatmeal, wheat bran, alfalfa meal, hominy feed, gluten feed, oat meal, mill by-product (oat middlings, oat hulls, oat shorts.)	As certified,	1299
5.49	4.00	8.00	10.00	2 10	Meat scraps, oatmeal, wheat bran with ground screenings not exceeding mill run alfalfa meal, yellow hominy feed, corn gluten feed, ground grain screenings.	Meat scraps, oatmeal, wheat bran with screenings, alfalfa meal, yellow hominy feed, corn gluten feed, ground grain screenings and trace small whole weed seeds.	1685
5.76	.....	8.33	.....	2 10			
2.95	2 50	2.67	5.00	2 50	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seeds.	Whole wheat, barley, Kaffir corn and buckwheat, cracked corn, sunflower seed and small amount whole weed seeds.	2042
2.95	2.50	2.28	5.00	2 50	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains, charcoal.	Cracked wheat, Kaffir corn and Indian corn, whole millet seed, oatmeal, flaxseed, charcoal and large amount whole weed seeds.	1872
3.23	2.50	2.32	5.00	2 00	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains, charcoal, marble grit.	Cracked wheat, Kaffir corn and Indian corn, whole millet seed, oatmeal, charcoal, marble grit and large amount whole weed seeds.	1616
3.34	2.50	2.89	5.00	2 50	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains, and charcoal.	Cracked wheat, Kaffir corn and Indian corn, whole millet seed, oatmeal, flaxseed, charcoal and large amount whole weed seeds.	1783
3.57	2.50	2.75	5.00	2 50	Cracked wheat, cracked Kaffir corn, cracked Indian corn, whole millet seed, oat meal, wild buckwheat with not to exceed $\frac{1}{2}$ of 1% miscellaneous wild seeds occurring in above seeds and grains, and charcoal.	Cracked wheat, Kaffir corn and Indian corn, whole millet seed, oatmeal, flaxseed, charcoal and large amount whole weed seeds.	1865
3.28	.....	2.56	.....	2 38			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
2299	Schumacher Poultry Mash,	Homestead, Vallowe Brothers.	Per ct. 8.37	Per ct. 22.79	Per ct. 17.50
1871	Schumacher Scratch Grains—No Grit,..	Coatesville, Handwork Brothers.	11.57	13.38	10.00
1304	Schumacher Scratch Grains—No Grit,..	Pitcairn, D. F. Salyards,	12.41	11.00	10.00
		Average,	12.14	10.69	.....
	RALSTON PURINA CO., INC., ST. LOUIS, MO.				
1636	Purina Chick Feed,	Bradford, L. A. Fischer & Co.	12.96	11.69	11.00
1334	Purina Chick Feed,	Kittanning, Wm. Gates Estate.	12.95	10.69	11.00
		Average,	12.95	11.19	.....
1638	Purina Chicken Chowder Feed,	Bradford, L. A. Fischer & Co.	11.41	20.56	19.00
1809	Purina Chicken Chowder Feed,	Williamsport, Gohl & King.	11.26	21.44	17.00
1914	Purina Chicken Chowder Feed,	Rosemont, Lippincott & Eadie.	10.77	19.81	17.00
		Average,	11.14	20.60	.....
1810	Purina Scratch Feed,	Williamsport, Gohl & King.	13.01	11.06	11.00
1912	Purina Scratch Feed,	Rosemont, Lippincott & Eadie.	13.11	10.31	11.00
		Average,	13.06	10.69	.....
1728	Winner Chick Feed,	Somerset, H. C. Beerlits' Sons.	13.20	10.63	10.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 5.32	Per ct. 4.00	Per ct. 8.51	Per ct. 10.00	2.65	Meat scraps, oat meal, wheat bran with ground screenings not exceeding mill run, alfalfa meal, yellow hominy feed, corn gluten feed, ground grain screenings.	As certified,	2299
3.09	2.50	2.82	5.00	2 25	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seeds.	Whole wheat, barley, buckwheat and Kaffir corn, cracked corn, sunflower seed and small amount whole weed seeds.	1871
3.61	2.50	2.74	5.00	2.15	Whole wheat, whole barley, cracked Indian corn, whole Kaffir corn, whole buckwheat, sunflower seeds.	As certified,	1304
3.35	.....	2.78	.....	2 20			
3.00	3.00	2.34	4.00	2 75	Wheat, corn, Kaffir, milo maize, millet	As certified,	1636
3.23	3.00	2.12	4.00	2.40	Wheat, corn, Kaffir milo maize, millet	Wheat, corn, Kaffir corn, milo maize, millet and small amount whole weed seeds.	1334
3.12	.....	2.23	.....	2 58			
4.79	4.00	4.59	9.00	2 75	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, not over 1% salt, 1% charcoal.	As certified,	1638
4.47	3.00	7.32	8.00	2 50	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, granulated meat, not over 1% salt, 1% charcoal.	As certified,	1809
3.65	3.00	7.97	8.00	2 75	Wheat middlings, wheat bran, corn meal, not over 1% salt, alfalfa meal, linseed meal, granulated meat and charcoal.	Wheat middlings, wheat bran, corn meal, alfalfa meal, linseed meal, meat meal, charcoal, salt and small amount ground grain screenings.	1914
4.30	.....	6.62	.....	2 67			
3.23	2.50	2.45	4.00	2 25	Wheat, corn, barley, Kaffir, milo maize, sunflower.	Wheat, corn, barley, Kaffir corn, milo maize, oats, sunflower seed, and trace whole weed seeds.	1810
2.87	2.50	2.24	4.00	2 50	Wheat, corn, barley, Kaffir, milo maize, sunflower.	As certified,	1912
3.05	.....	2.34	.....	2 38			
3.39	2.50	1.55	5.00	2 50	Wheat, corn, millet, Kaffir, milo maize and reeked wheat screenings.	Wheat, corn, millet, Kaffir corn, milo maize, flaxseed, wheat screenings and trace whole weed seeds.	1728

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1293	Winner Scratch Feed,	Johnstown, A. F. Stutzman & Co.	Per ct. 13.12	Per ct. 10.00	Per ct. 10.00
1928	ROBBINS MILLING CO., WILKES-BARRE, PA. Luzerne Capitol Poultry Mash,	Wilkes-Barre, Rohhins Milling Co.	10.41	17.19	17-19
1394	SAGINAW MILLING CO., SAGINAW, MICH. Ogemaw A. A. Pigeon Feed,	Rochester, Rochester Seed & Supply Co.	12.60	14.00	13.5-16
1472	Red Hen Chick Starter,	Pittsburgh, The I. W. Scott Co.	11.36	12.56	13-14
2326	SCRANTON FLOUR & GRAIN CO., SCRANTON, PA. Mixed chicken grain,	Scranton, Scranton Flour & Grain Co.	12.18	11.56	.....
1634	SMITH BROTHERS, BRADFORD, PA. Egg mash,	Bradford, Smith Brothers,	11.00	13.13	15.00
1474	SPRATTS' PATENT (AMERICAN) LTD., NEW YORK, N. Y. Spratts' Patent Chick Meal No. 5,	Pittsburgh, The I. W. Scott Co.	8.01	22.19	20.00
1265	SWOPE BROTHERS, JOHNSTOWN, PA. Egg Maker Dry Mash,	Johnstown, Swope Bros.,	10.15	13.56	20.00
1266	Excelsior Chicken Feed,	Johnstown, Swope Bros.,	10.04	9.56	8.00
1357	TOLEDO GRAIN & MILLING CO., TOLEDO, OHIO. Camp's Red Ball Scratch Feed,	Bedford, N. M. & O. R. Diehl,	12.42	10.19	10.00
1767	Camp's Red Ball Scratch Feed,	Reynoldsville, Fales Grocery Co.	12.56	10.50	10.00
1291	Camp's Red Ball Scratch Feed,	Johnstown, Johnstown Milling Co.	13.02	10.50	10.00
	Average		12.66	10.40	.....

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
3.74	3.00	1.98	6.00	2 10	Wheat, corn, barley, re-cleaned wheat screenings, sunflower Kafir, milo maize.	As certified,	1293
4.78	4-5	7.23	7-9	2 50	Bran, middlings, corn meal, beef scraps, alfalfa meal, charcoal, blood meal, beef meal, oil meal and hominy feed.	As certified,	1923
2.77	2.75-3.75	2.93	3.5-5	3 00	Wheat, Kafir corn, buckwheat, hemp seed, millet, peas.	Wheat, Kafir corn, buckwheat, hemp seed, millet, peas and small amount whole weed seeds.	1394
2.50	2.5-3	1.98	2.5-4.5	2 40	Corn, wheat, peas, millet and Kafir corn.	Corn, oats, wheat, peas, millet and Kafir corn.	1472
3.05	.....	3.77	.....	2 60	Kafir corn, wheat cracked corn, buckwheat grains, oats and rye.	As certified,	2326
4.75	4.00	7.58	12.00	2 25	Corn meal, flour middlings, alfalfa meal, meat scraps, oil meal, gluten feed, bran, charcoal.	As certified,	1634
2.25	3.50	1.03	2.00	5 85	.....	Wheat flour, meat and bone cooked; and ground mustard.	1474
4.51	4.50	7.55	8.00	2 50	Beef scraps, dried milk, ground oats and barley (decorticated) home made bran, home made middlings, ground Kafir corn, oil meal and alfalfa meal.	Beef scraps, dried milk, ground oats and barley, wheat bran, wheat middlings, corn gluten feed, ground Kafir corn, linseed oil meal, alfalfa meal and small amount ground grain screenings.	1265
2.64	2.00	2.74	9.00	2 25	Corn, Kafir corn, buckwheat, wheat, oats, barley, sunflower seed, oil cake, grit, oyster shells.	Corn, Kafir corn, buckwheat, wheat, oats, barley, sunflower seed, grit, oyster shells and small amount small whole weed seeds.	1266
3.49	2.50	2.32	5.00	2 00	Cracked corn, whole wheat, Kafir corn, barley, oats, buckwheat, sunflower seed.	Cracked corn, whole wheat, Kafir corn, barley, oats, buckwheat, sunflower seed and small amount small whole weed seeds.	1357
3.50	5.00	2.36	2.50	38 00	Cracked corn, whole wheat, Kafir corn, barley, oats, buckwheat, sunflower seed.	As certified,	1767
3.47	2.50	2.38	5.00	2 00	Cracked corn, whole wheat, Kafir corn, barley, oats, buckwheat, sunflower seed.	As certified,	1291
3.49	.....	2.35	.....	39 33			

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1985	Clover Leaf Scratch Feed,	Charleroi, Samuel Krasik,	Per ct. 11.49	Per ct. 11.13	Per ct. 10.00
ANIMAL BY-PRODUCTS.					
2398	THE AMERICAN AGRICULTURAL CHEMICAL CO., NEW YORK, N. Y. Ground Meat Scraps,	Indiana, St. Clair, Rinn & Co.	5.82	45.19	45.00
1691	Pure Ground Meat and Bone Scrap Fine.	Warren, Warren City Mills.	8.83	52.07	45.00
		Average,	7.32	48.63	.....
2247	Pure Ground Meat Scraps,	Towanda, Dayton Milling Co.	6.90	59.13	55.00
1572	THE AMERICAN PRODUCTS CO., PHILADELPHIA, PA. A. P. Co. Poultry Meat,	Sellersville, J. A. Kooker.	7.22	47.94	50-55
2387	BAUGH & SONS CO., PHILADEL- PHIA, PA. Baugh's Meat Meal for Poultry,	Easton, George E. Dull, .	5.39	45.33	50.00
1385	THE BERG CO., PHILADELPHIA, PA. Berg's 3 Medal Poultry Meat,	Quakertown, S. S. Det- weiler.	8.96	37.89	40-55
2255	Berg's 3 Medal Poultry Meat,	Towanda, F. H. Hager- man.	6.28	39.31	40-55
		Average,	7.62	38.60	.....
1451	BLAMBERG BROTHERS, INC., BAL- TIMORE, MD. Cornell Brand Beef Scraps for Poultry,	Fairchance, Banner Flour Mills.	5.83	51.34	50-55
1428	F. P. CASSEL & SON, LANSDALE, PA. High Protein Beef Scraps Meat Meal,	Lansdale, F. P. Cassell & Son.	9.58	58.55	55-65
1433	CONSOLIDATED DRESSED BEEF CO., PHILADELPHIA, PA. Consolidated Beef Scraps,	Lansdale, F. P. Cassel & Son.	6.42	47.96	50-55
2411	Consolidated Beef Scraps,	Lebanon, A. M. Weit- mer's Sons.	6.13	46.69	50-55
		Average,	6.27	47.32	.....
1613	DARLING & CO., CHICAGO, ILL. Darling's 60% Digester Tankage,	Parnassus, Johnston & Hamilton.	10.05	62.25	60.00
1470	Darling's 60% Digester Tankage,	Pittsburgh, The I. W. Scott Co.	10.50	62.06	60.00
		Average,	10.27	62.16	.....
1325	Darling's High Protein Meat Scraps for Poultry.	Kittanning, J. A. Gault Co.	8.84	57.56	55.00
2314	JACOB DOLD PACKING CO., BUF- FALO, N. Y. Dold Quality Meat & Bone Scrap,	Montrose, Brown & Fas- sett.	6.56	53.19	50.00
1696	Dold Quality Meat and Bone Meal, ...	Lock Haven, F. H. Dyer.	6.60	53.25	46.00
2047	Dold Quality No. 2 Meat and Bone Scraps.	Clarion, A. C. Snyder & Son.	7.30	48.81	45-50

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 2.94	Per ct. 2.50	Per ct. 2.37	Per ct. 5.00	2 25	Cracked corn, whole wheat, Kaffir corn, barley, oats, buck-wheat, 2½% grit, 1½% oyster shells, 1% charcoal.	As certified,	1985
14.36	10.00	1.46	.....	5 00	Made from meat scraps.	Meat and bone scrap, ..	2338
13.31	10.00	1.35	.....	3 50	.....	Meat and bone scrap, ..	1691
13.84	.....	1.40	.....	4 25	.....	.....	.....
12.93	10.00	1.66	.....	3 50	Made from meat scraps.	As certified,	2247
12.18	11-13	1.52	1-3	3 25	.....	Meat and bone scrap, ..	1572
17.66	14.00	1.09	1.00	3 50	Made of ground pure beef cracklings.	As certified,	2387
16.71	11-15	1.87	1-3	2 90	.....	Meat and bone scrap, ..	1385
12.53	11-15	2.22	1-3	3 00	.....	Meat and bone scrap, ..	2255
14.62	.....	2.04	.....	2.95	.....	.....	.....
12.30	14.00	0.56	2.00	3 50	Made from pure ground beef cracklings.	As certified,	1451
11.95	5-10	1.58	1.00	59 00	.....	Beef and bone scrap, ..	1423
11.55	12-14	1.50	2.00	54.00	.....	Beef and bone scrap, ..	1433
14.82	12-14	1.24	2.00	2 90	.....	Beef scrap,	2411
13.19	.....	1.37	.....	56 00	.....	.....	.....
6.56	0.50	1.46	3.00	3 00	Meat products,	As certified,	1613
6.53	0.50	1.42	3.00	2 80	Meat products,	As certified,	1470
6.55	.....	1.44	.....	2 90	.....	.....	.....
7.99	0.50	2.77	3.00	3 25	Meat products,	Meat and bone scrap, ..	1325
11.05	8.00	1.38	5.00	3 00	Manufactured from scraps of meat cooked and dried.	As certified,	2314
12.07	10.00	4.40	5.00	2 50	.....	Meat and bone meal, ..	1696
12.24	8.00	1.55	5.00	4 00	Manufactured from scraps of meat cooked and dried.	As certified,	2047

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
1432	Dold Quality Poultry Bone,	Lansdale, F. P. Cassel & Son.	Per ct. 6.38	Per ct. 27.75	Per ct. 24.00
	JOHN W. ESHELMAN, LANCASTER, PA.				
2135	Eshelman's Digester Tankage,	Lancaster, John W. Eshelman.	7.68	47.38	60.00
2132	Meat Scraps,	Lancaster, John W. Eshelman.	5.32	50.76	50.00
	THE FRITZ COMPANY, PHILADELPHIA, PA.				
1892	Ideal Brand Meat and Bone Scraps, .	Gettysburg, J. W. McIlhenny.	8.06	45.50	50.00
	INTERNATIONAL GLUE CO., BOSTON, MASS.				
1429	Red Star Brand Fish Scrap,	Lansdale, F. P. Cassel & Son.	7.36	53.94	45-54
	PITTSBURGH PROVISION & PACKING CO., PITTSBURGH, PA.				
1476	Beef Scraps,	Wilksburg, Johnston & Smith.	8.27	35.19	36-38
	QUAKER CITY MANUFACTURING CO., PHILADELPHIA, PA.				
2172	Quaker City Quality Brand Meat and Bone Scraps.	Chambersburg, Diehl, Omwake & Diehl.	7.13	50.00	50.00
1963	Quaker City Quality Brand Meat and Bone Scraps.	Lewisburg, E. C. Noll. .	6.35	47.13	50.00
2357	Quaker City Quality Brand Meat and Bone Scraps.	Honesdale, Wayne Milling Co.	5.75	47.88	50.00
	Average,		6.41	48.34	.....
1964	Quaker City Special Brand Meat and Bone Scraps.	Lewisburg, E. C. Noll, ..	6.79	39.50	40.00
	J. D. RAMSEY, PITTSBURGH, PA.				
1416	Ramsey's Beef Meal,	West Bridgewater, W. W. McCullough.	5.10	35.44	30.00
	ROBERT A. REICHARD, ALLENTOWN, PA.				
1389	Reichard's Standard Beef Scrap	Quakertown, H. H. Bean.	7.71	49.22	45-50
2264	Reichard's Standard Beef Scrap	Laceyville, A. L. Vander-vort.	6.48	46.63	45-50
	Average,		7.09	47.93	.....
	THE I. W. SCOTT CO., PITTSBURGH, PA.				
1468	American Meat Scraps,	Pittsburgh, The I. W. Scott Co.	6.26	58.25	55-60
	THE W. A. SIMPSON CO., BALTIMORE, MD.				
1826	Champion Brand Meat Scraps,	Tionesta, Lanson Bros., .	10.27	47.94	50.00
	SWIFT & COMPANY, NEWARK, N. J.				
1430	Swift's Digester Tankage,	Lansdale, F. P. Cassel & Son.	14.79	56.12	60.00
1391	Swift's Laymore Meat Scraps,	Coopersburg, H. E. Knappenberger.	7.38	38.24	40-50
2338	Swift's Laymore Meat Scraps,	Scranton, C. P. Matthews & Sons, Inc.	6.18	43.69	45.00
	Average,		6.78	40.97	.....
	THE VAN DERSTINE CO., LONG ISLAND CITY, N. Y.				
1795	Darling's 60% Protein Digester Tankage for Hogs.	Sunbury, Blank & Gottshall.	8.38	63.06	60.00
1794	Darling's 40% Protein Digester Tankage for Hogs.	Sunbury, Blank & Gottshall.	8.94	50.44	40.00
1796	Darling's High Protein Meat Scraps for Poultry.	Sunbury, Blank & Gottshall.	6.63	55.63	55.00

FEEDING STUFFS COLLECTED IN 1916.—Continued.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct. 1.79	Per ct. 2.00	Per ct. 2.44	Per ct. 5.00	2 50	.....	Bone,	1432
8.33	8.00	2.88	5.00	50 00	.....	Digester tankage,	2135
13.32	8.00	1.08	3.00	50 00	.....	Meat scrap,	2132
13.62	10.00	1.09	2.00	2 75	Meat and bone scraps,	As certified,	1892
1.89	2.00	0.53	1.00	2 75	.....	Fish scrap,	1429
20.77	14.5—15	3.25	2.73-3.25	3 75	Meat and bone, ..	As certified,	1476
12.54	10.00	1.26	2.00	2 75	Meat and bone scr ps,	As certified,	2172
13.42	10.00	0.85	2.00	60 00	Meat and bone scr=ps,	As certified,	1963
14.06	10.00	0.90	2.00	2 75	Meat and bone scraps,	As certified,	2357
13.34	.....	1.00	.....	56 67			
13.92	10.00	1.48	2.00	40 00	Meat and bone scraps,	As certified,	1964
13.62	18.00	2.05	3.25	2 00	.....	Beef meal,	1416
13.43	8-10	1.08	4-5	2 75	.....	Beef and bone scrap, ..	1339
11.90	8-10	1.31	4-5	3 00	.....	Beef scrap,	2264
12.67	.....	1.19	.....	2 88			
8.49	2-3	2.02	1-3	3 25	.....	Meat and bone scrap, ..	1468
10.64	10.00	1.68	1-3	3 00	.....	Beef and bone scrap, ..	1826
5.57	8.00	1.26	3.00	2 60	.....	Digester tankage,	1430
12.94	8.00	1.56	3.00	2 90	.....	Meat and bone scrap, ..	1391
12.28	8.00	2.70	3.00	3 00	.....	Meat and bone scrap, ..	2338
12.61	.....	2.13	.....	2 95			
5.37	1.00	3.10	3.00	2 85	.....	Digester tankage,	1795
3.19	1.00	4.32	3.50	2 45	.....	Digester tankage,	1794
11.53	5.00	1.56	3.00	3 00	.....	Meat and bone scrap, ..	1796

TABLE IV.—ANALYSES OF SAMPLES OF

Chemist's number.	Name and Address of Manufacturer or Importer and Brand Name.	Sampled at	Moisture.	Protein.	
				Found.	Guaranteed.
	CONDIMENTAL STOCK AND POULTRY FEEDS.				
2312	COLONIAL FOOD DIGESTER CO., MONTROSE, PA. Colonial Food Digester,	Montrose, Colonial Food Digester Co.	Per ct. 10.49	Per ct. 26.63	Per ct. 25.75
1420	PRATT FOOD CO., PHILADELPHIA, PA. Pratt's Baby Chick Food,	Freedom, Excelsior Feed & Flour Co.	10.61	14.13	12.00
1632	Pratt's Baby Chick Food,	Bradford, Smith Bros., .	11.02	15.06	13.00

FEEDING STUFFS COLLECTED IN 1916.—Concluded.

Fat.		Fiber.		Price per ton or cwt.	Certified Composition.	Identified by Microscopical Examination.	Chemist's number.
Found.	Guaranteed.	Found.	Guaranteed.				
Per ct.	Per ct.	Per ct.	Per ct.				
5.19	4.50	10.51	12.00	15 00	Linseed oil meal, charcoal, foenugreek, sulphur, sodium chloride, potassium bitartrate, sulphate of magnesia.	As certified,	2312
4.71	4.00	2.57	3.00	71 43	Hulled oats, corn meal, wheat middlings, epsom salts, bone meal, cooked wheat, pepper, gentian, millet, ginger, rape, caraway and shell meal.	As certified,	1420
4.82	4.75	2.40	3.00	5 00	Hulled oats, epsom salts, black pepper, ginger, cooked wheat, shell meal, gentian, rape, bone meal, wheat middlings, corn meal, millet, caraway.	As certified,	1632

